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1 The anatomy of a context-aware application

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Andy Harter , Andy Hopper , Pete Steggles , Andy Ward , Paul Webster

Wireless Networks March 2002

Volume 8 Issue 2/3

We describe a sensor-driven, or sentient, platform for context-aware computing that enables applications to follow mobile users as they move around a building. The platform is particularly suitable for richly equipped, networked environments. The only item a user is required to carry is a small sensor tag, which identifies them to the system and locates them accurately in three dimensions. The platform builds a dynamic model of the environment using these location sensors and resource informatio ...

2 Real-time visualization of the clear-up of a former U.S. Naval base

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Paul Chapman , Derek Wills , Peter Stevens , Graham Brookes

Proceedings of the conference on Visualization 2000 October 2000**3 Technologies for augmented reality systems: realizing ultrasound-guided needle biopsies**

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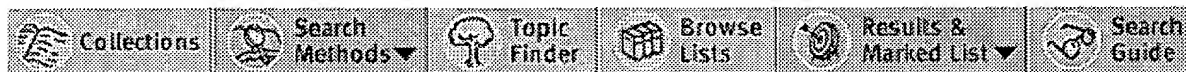
Ron Weiss , Bienvenido Vélez , Mark A. Sheldon

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 Michel Araten , Harold G. Hixson , Austin C. Hoggatt , Philip J. Kiviat , Michael F. Morris ,
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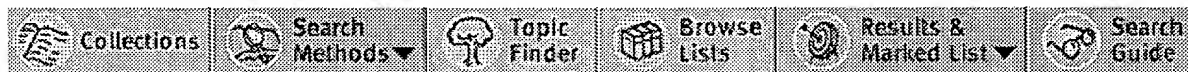
- ☐ 1. Scales of justice weigh up a fishy tale; [2 Edition]; **The Herald**, Glasgow (UK); Aug 22, 1998; pg. 7
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- ☐ 3. Local start-up weighs in Electronic scale keeps heart patients on-line at home By: **Frances Hong; [SECOND Edition]; San Francisco Examiner**, San Francisco, Calif.; Nov 24, 1997; pg. B.1
- ☐ 4. HOW THEY CAUGHT THE GRANDERS; [ALL Edition]; **BOB HUTCHINSON Landmark News Service; Greensboro News Record**, Greensboro, N.C.; Oct 5, 1997; pg. C.15
- ☐ 5. THE BIG ONE MASSIVE "GRANDERS" ARE FEW AND FAR BETWEEN; [FINAL Edition]; **BOB HUTCHINSON, OUTDOORS EDITOR; Virginian - Pilot**, Norfolk, Va.; Aug 21, 1997; pg. C.1
- ☐ 6. Air-Weigh adds low-cost, on-board scale, multiplexing; **Anonymous; Fleet Owner**, Overland Park; Jul 1997; Vol. 92, Iss. 7; pg. 40, 1 pgs
- ☐ 7. Kentucky a great place to horse around; **Tom and Joanne O'Toole; The Grand Rapids Press**, Grand Rapids, Mich.; Apr 20, 1997; pg. i.1
- ☐ 8. Light in weight not performance; [Final Edition]; **By Richard Morochove; Toronto Star**, Toronto, Ont.; Feb 20, 1997; pg. K.4
- ☐ 9. CONNECTED: Tesco tests DIY scanner technology Supermarkets are battling for the cutting edge, reports **Penelope Ody; PENELOPE ODY; The Daily Telegraph**, London (UK); Jan 28, 1997; pg. 03
- ☐ 10. QUILTERS ARE SEEKING FRAMES AND BEES; [All Editions.=.5 Star. 4 Star. 3 Star. 2 Star. 1 Star]; **By ROBIN STORCH-SCHERAGA, Special to The Record; Record**, Bergen County, N.J.; Jan 15, 1997; pg. 006

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- ☐ 15. [PALMETTO SITE OF FISHING TOURNEY A RECORD NUMBER OF ENTRIES WILL COMPETE IN THE ANNUAL CROSTHWAIT MEMORIAL FISHING TOURNAMENT.; \[Manatee Edition\]; Phuong Nguyen STAFF WRITER; Sarasota Herald Tribune, Sarasota, Fla.; May 18, 1996; pg. 1.B](#)
- ☐ 16. [MSG Card Was Big, As In Flab Feature; \[ALL EDITIONS\]; Joe Gergen; Newsday, Long Island, N.Y.; May 11, 1996; Combined editions; pg. A.37](#)
- ☐ 17. [New products aim to brighten your world and lighten your workload; \[SOONER Edition\]; Michael Taylor, Dallas Morning News; Pittsburgh Post - Gazette, Pittsburgh, Pa.; Mar 02, 1996; pg. D.6](#)
- ☐ 18. [FOR KITCHEN SCALES, GO ELECTRONIC; \[VALLEY Edition\]; Jack Bishop and Sandy Ray Cook's Illustrated; Daily News, Los Angeles, Calif.; Jan 4, 1996; pg. H.1](#)
- ☐ 19. [Weighing equipment: Much more than just scales these days; Forger, Gary; Modern Materials Handling, Boston; Dec 1995; Vol. 50, Iss. 14; pg. 34, 2 pgs](#)
- ☐ 20. [CONSUMER NEWS: Weighed in the balance CONSUMER REPORT There's more to bathroom scales than simply being accurate. Noelle Walsh puts some to the test; NOELLE WALSH; The Daily Telegraph, London \(UK\); Nov 21, 1994; pg. 18](#)

1-10 21-30

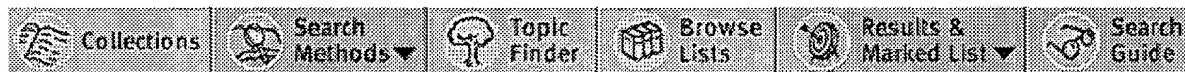
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- ☐ 23. [Little by Little, Zoo Unwraps Cubs; \[Sunrise Edition\]; John Melingagio; Omaha World - Herald, Omaha, Neb.; May 26, 1989; pg. 1](#)
- ☐ 24. [MARKETS FACING CRACKDOWN ON WAY THEY WEIGH PRODUCTS; \[THIRD Edition\]; STEPHEN DRACHLER, The Morning Call; Morning Call, Allentown, Pa.; Apr 2, 1989; pg. A.01](#)
- ☐ 25. [Big bass still amazes biologists; \[FINAL Edition\]; Mike Leggett; Austin American Statesman, Austin, Tex.; Jan 20, 1989; pg. D.6](#)
- ☐ 26. ['Art Affair' program to offer introduction to collecting; \[METRO Edition\]; Mary Abbe Martin; Minneapolis Star and Tribune, Minneapolis, Minn.; Aug 23, 1987; pg. 01.G](#)
- ☐ 27. [Miss Liberty's Sister Ice Sculptor Creates a Cool Lady; \[Orange County Edition\]; BENJAMIN EPSTEIN; The Los Angeles Times \(pre-1997 Fulltext\), Los Angeles, Calif.; Jul 3, 1986; pg. 1](#)

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1 Surface-micromachined resonant accelerometer*Roessig, T.A.; Howe, R.T.; Pisano, A.P.; Smith, J.H.*

Solid State Sensors and Actuators, 1997. TRANSDUCERS '97 Chicago., 1997

International Conference on , Volume: 2 , 1997

Page(s): 859 -862 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(816 KB\)\]](#) **CNF**
2 Normal and shear interface stresses in lower-limb prosthetics*Sanders, J.E.; Daly, C.H.*

Engineering in Medicine and Biology Society, 1989. Images of the Twenty-Fir Century., Proceedings of the Annual International Conference of the IEEE Eng

in , 1989

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[\[Abstract\]](#) [\[PDF Full-Text \(148 KB\)\]](#) **CNF**
3 Dynamic elongation of fluid and air filled elastic tubes: model for ce blood vessel trauma*Boock, R.J.; Thibault, L.A.*

Engineering in Medicine and Biology Society, 1989. Images of the Twenty-Fir Century., Proceedings of the Annual International Conference of the IEEE Eng

in , 1989

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***** HHHHHHHH SSSSSSSS?

Status: Signing onto Dialog

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Welcome to DIALOG

Status: Connected

Dialog level 02.08.23D

Last logoff: 26aug02 09:15:02

Logon file405 29aug02 08:58:43

*** ANNOUNCEMENT ***

--File 990 - NewsRoom now contains May 2002 to present records.

File 993 - NewsRoom archive contains 2002 records from January 2002-
April 2002. To search all 2002 records, BEGIN 990,993 or B NEWS2002.

--Alerts have been enhanced to allow a single Alert profile to be
stored and run against multiple files. Duplicate removal is available
across files and for up to 12 months. The Alert may be run according
to the file's update frequency or according to a custom
calendar-based schedule. There are no additional prices for these
enhanced features. See HELP ALERT for more information.

--U.S. Patents Fulltext (File 654) has been redesigned with
new search and display features. See HELP NEWS 654 for
information.

--Connect Time joins DialUnits as pricing
options on Dialog. See HELP CONNECT for
information.

--CLAIMS/US Patents (Files 340,341, 942) have been enhanced
with both application and grant publication level in a
single record. See HELP NEWS 340 for information.

--SourceOne patents are now delivered to your
email inbox as PDF replacing TIFF delivery.
See HELP SOURCE1 for more information.

--Important news for public and academic
libraries. See HELP LIBRARY for more information.

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See HELP FREELANCE for more information

For information about the access to file 43 please see Help News43.

NEW FILES RELEASED

***Dialog NewsRoom - Current 3-4 months (File 990)

***Dialog NewsRoom - 2002 Archive (File 993)

***Dialog NewsRoom - 2001 Archive (File 994)

***Dialog NewsRoom - 2000 Archive (File 995)

***TRADEMARKSCAN-Finland (File 679)
***TRADEMARKSCAN-Norway (File 678)
***TRADEMARKSCAN-Sweden (File 675)

UPDATING RESUMED

***Delphes European Business (File 481)

RELOADED

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***D&B - Dun's Market Identifiers (File 516)
***PsyncINFO (File 11)

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***Fort Lauderdale Sun Sentinel (File 497)
***The Orlando Sentinel (File 705)
***Newport News Daily Press (File 747)
***U.S. Patents Fulltext 1980-1989 (File 653)
***Washington Post (File 146)
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New document supplier

IMED has been changed to INFOTRIE (see HELP OINFOTRI)

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

COREFT is set ON as an alias for 15,9,810,275,624,813,636,621,16,148,20,610,613,160,476

COREAB is set ON as an alias for 77,35,583,2,65,233,99,474,475,278,256.

PATFT is set ON as an alias for 348,349.

HEALTHFT is set ON as an alias for 442,43,149,444,129,130,455.

HEALTHAB is set ON as an alias for 5,73,155,34,434,74,42.

TRANSFT is set ON as an alias for 80,637.

TRANSAB is set ON as an alias for 108,6,63.

ADVERTFT is set ON as an alias for 635,570,PAPERSMJ,PAPERSEU.

INVENFT is set ON as an alias for 8,2,14,94,6,34,434,7.

SHOPFT is set ON as an alias for 635,47,570,PAPERS.

BANKFT is set ON as an alias for 625,268,626,267.

BANKAB is set ON as an alias for 139.

INSURFT is set ON as an alias for 625,637.

INSURAB is set ON as an alias for 169.

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Cost is in DialUnits

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3. Help in Choosing Databases for Your Topic
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7. Data Star(R)

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/H = Help

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Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

?b COREFT,COREAB

```
>>>          278 does not exist
>>>1 of the specified files is not available
      29aug02 08:59:39 User267117 Session D59.1
          $0.00      0.167 DialUnits FileHomeBase
$0.00 Estimated cost FileHomeBase
$0.20 TELNET
$0.20 Estimated cost this search
$0.20 Estimated total session cost  0.167 DialUnits
```

SYSTEM:OS - DIALOG OneSearch

File 15:ABI/Inform(R) 1971-2002/Aug 28

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File 810:Business Wire 1986-1999/Feb 28

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File 621:Gale Group New Prod.Annou.(R) 1985-2002/Aug 28

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	141323	WEIGH
	1342283	DISPLAY
	2967240	FORCE
	49832	TRANSDUCER
	858	FORCE (W) TRANSDUCER
S1	14	SCALE AND WEIGH AND DISPLAY AND (FORCE())TRANSDUCER)
?t	s1/6,k/all	
>>>	KWIC option is not available in file(s): 77	

1/6,K/1 (Item 1 from file: 16)
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ACCURATE.(Bulk solids metering equipment)(Brief Article)
 Oct, 2001
 Word Count: 8454

... and fillers. Materials test lab available to ensure exact specifications.

ACRISON, INC.

Model A405-V101 **weigh** feeder for metering dry solids at low-to-moderate rates can handle fibrous materials traditionally...

...10 to 600 lb/hr. (See also Compounding and Mixing Systems.)

AEC/HYDRECLAIM

ORW ratio- **weigh** blenders feature weighed virgin and regrind metering/conveying. When a preset weighed batch is dumped...

...Hand-held remote-control keypad can be located conveniently by the operator station.

Accumulative batch **weigh** blenders have menu-driven computer controls. Several units can interface with each other for total plant inventory control. OS Diamond Gate slide-gate **weigh** blenders can

accurately meter from 1/2% to 100%. (See ad this page.)
AEC/WHITLOCK...

...applications. Series includes OS and OA gravimetric blenders and OL continuous gravimetric blenders. Totalizing OFE **weigh** systems available for accurate inventory management and control of process. OFI single-component **weigh** feeders available to precisely meter and track material.

Optimum Series **weigh** blenders utilize quick-clean design with capacities to 5000 lb/hr/ingredient (up to six...

...controls for intermittent or continuous processing provide accurate closed-loop, motor-speed control and digital **display** of setpoint. Options include extruder tracking and cycle timer/batch counter.

Smart microprocessor feeder control...

...injection features four closed-loop modes of operation and 40-character, two-line vacuum fluorescent **display**. (See ads pp. 277, 298.)

AMERICAN LEWA, INC.

Modular metering pumps and packaged systems for...mechanical mixing and potential for material segregation.

Gravimetric units provide continuous high-accuracy, in-line **weigh** blending of up to eight ingredients. Pellets and powders fed at total throughput of over...

...serial communications link to host computer or to data recorder. Extrusion control packages also available: **weigh** /length control for profile and wire/cable coating, or **weigh** /area control for blown film, cast film, and sheet.

Volumetric continuous blenders automatically meter and...

...process up to materials depending on model. Computer-controlled units utilize two load cells that **weigh** each ingredient' before it enters mixing chamber. Accuracy is 0.1 of 1% of the requested ratio and is achieved by using metering pinch valves. Standard features include LCD **display** of necessary data, 100-recipe memory, stainless-steel mix chamber, RS232 port for report generation...of volumetric and gravimetric feeders includes twin-screw, single-screw, vibrating tray and tube, and **weigh** belt feeders, which are pretested and preassembled.

Markets Brabender FlexWall feeder, which is a flexible...

...more pellet or powder materials and weighs minor ingredients as they are metered into a **scale** hopper. Blending is done in either a supplied dynamic mixer or a separate ribbon or high-intensity mixer. Systems deliver 100 to 8000 lb/hr of blended materials.

All **weigh** blenders have (+ or -)0.5% accuracy. Larger models come standard with DX electronic controls, including...gear reducer, mounting bench, and microprocessor controller. Special forms available for PVC and fluoropolymers. Also **weigh** feeders used for large volumes. Both melt pumps and **weigh** feeders suited for use as part of a closed-loop control system.

H.F. HENDERSON...

...and flexible PVC. Systems utilize non-proprietary hardware and software.

Sub-systems supplied include resin **weigh** scales that interface with mixer and infeed system; chemical **weigh** scales in gain-in-weight or loss-in-weight configuration; plasticizer/oil scales, heated and...

...support, start-up, operator and maintenance training, and 24-hour service and parts coverage. Smart **Force transducer weigh** modules provide **weigh** feeder resolution 1:1 million. Feeder controls easily interfaced with PLC/DCS and configured for continuous or batch processes.

Weigh -belt feeders for controlling free-flowing pellets and

granules are advantageous where low headroom is...

...where material content is not critical to the process. Units also used as prefeeders for **weigh** belts and in gain-in-weight batching applications. K2-Volumetric feeders offer same Powersphere and...

...space limitations are a problem. Available in single-screw, twinscrew and vibratory models with interchangeable **scale**. Quick-exchange model allows color changes without having to clean the feeder.
Mass flow meter...

...coriollis flow meters. It can be used as an alternative to loss-in-weight and **weigh** -belt feeders in high-rate applications, as a feedback device to the controller in continuous...lb/hr or higher, resin and regrind are sequentially dispensed from hopper bins into a **weigh** chamber by high-speed slide-gate valves with an accuracy/dispense of (+ or -)4 g...unit can be quickly disassembled for fast clean out. PLC controls include a full-message **display** for easy operator interface and viewing of blending parameters. Control panel can be removed from...

...standard; also available with gaylord clearance and machine-mount bases.
GXB series Exac-U-Batch **weigh scale** blender for up to eight materials can be programmed to dispense materials in a multitude...

...Blenders are computer-controlled with an easy-to-read LCD screen. Two load cells precisely **weigh** each ingredient deposited into a **scale** hopper and then into a mixing chamber, producing an homogeneous mix. Processing rate is accurately...

...monitoring of the proximity level switch in the mixing chamber.
Ingredients are deposited into the **scale** hopper using a metering pinch valve assembly. Accuracy is maintained at 0.10 of 1...auger-feeder (cascading blender) reportedly can satisfy 99% of pellet-blending requirements without an expensive **weigh** feeder. Up to four materials are proportionally fed ((+ or -)1%) into cascading section of the...stream-out feeders, and volumetric feeders. Specializes in feeding of fibrous materials and micro-ingredient **weigh** systems.

SPIROL INTERNATIONAL CORP.

Series 2000 high-performance vibratory parts feeder reportedly maximizes efficiency and...

...and gain-in-weight gravimetric systems include a flexible-walled volumetric feeder mounted on a **scale** base and controlled with a closed-loop loss-in-weight controller, which can be configured to handle multiple feeders.

Bulk-bag unloading systems and **weigh** -belt feeders cover a range of feeding applications for most bulk powders and pellets. Also...
...of hard-sided volumetric feeders for materials, such as pellets, have good flow characteristics.

THAYER **SCALE** /HYER INDUSTRIES, INC.

Line of gravimetric screw and vibratory loss-in-weight feeders, **weigh** belt feeders, belt scales, **display** and control instrumentation, and bin and hopper flow aids. Specializes in powder feeding such as additives and pigments, but also supplies equipment for feeding fibers, flakes, pellets and liquids.

Weigh feeder controller instrumentation is durable and user friendly. Installed drivers for serial interface with all...

...molding machines or extruders.

TRIDYNE PROCESS SYSTEMS DIV. OF DBI INDUSTRIES INC.

Net-weighing or **weigh** -counting machines and systems for dry materials. Features include preweighing and discharging, or continuous feeding...

1/6,K/2 (Item 2 from file: 16)
DIALOG(R) File 16:(c) 2002 The Gale Group. All rts. reserv.

09204382 Supplier Number: 78402299 (USE FORMAT 7 FOR FULLTEXT)
ANTEC '99 WRAPUP.
July, 1999
Word Count: 22054

... The company highlighted the services of its process engineers, who are responsible for the development, **scale** -up, and optimization of each project, and its design engineers, who develop the required application... as 2 minutes. It features user-programmable test starts, built-in menu prompts, real-time **display** of test dynamics, statistical software package, test parameter storage for 30 sample materials, and the...EM waves on the surface of the enclosure and by absorption in the walls.

On **display** were samples of fibers, in addition to parts that utilize this technology, such as electronic...

...systems equipment for plastics processors. A variety of feeder types are featured, including twin screw, **weigh** belt, siletta style, chopped fiberglass, vibratory and liquid lossin-weight, and Flex Wall volumetric. Also...

...284-4574; fax (905)670-2557; website: www.brabender-technologie.com
The Brush Wellman, Inc., **display** focused on the company's Moldmax and Protherm copper beryllium mold alloys, which are designed...can be used for analysis, design, and optimization of virtually any extrusion process. Also on **display** were Accuform software products--the new Version 4 of T-SIM computer simulation of thermoforming...

...8425; fax (201) 343-0608; e-mail: cwbi@cwbrabender.com; website: www.cwbrabender.com
On **display** at DACA Instruments' booth were the MicroCompounder and MicroInjector. The MicroCompounder has combined the intensive...9425; fax (540) 349-8092; website: www.ditusa.com; e-mail: dit@ditusa.com

On **display** at the Digital Instruments exhibit was the Dimension 3100 scanning probe microscope (SPM). The microscope...

...semiconductor wafers, lithography masks, magnetic media, CD/DVD, biomaterials, optics, and other samples. Also on **display** was the MultiMode AFM (atomic force microscopy), which offers high-resolution for contact mode, TappingMode...

...wear-resistant and friction-resistant materials. Products made from Akulon, Arnitel, and Nylatron were on **display**. Akulon can be either nylon 6 or nylon 66, is available reinforced or unreinforced, and ...a choice of eight plastic, metal, and ceramic materials.

Among the many sample products on **display** were a radiator hose and a door trim made from a thermoplastic elastomer. Also shown...

...3000,5000,7500, and 10,000 psi) on a single transducer. The device offers full- **scale** output for selected ranges of 3.33 mV/V and accuracy of (+ OR -)0.5...high-resolution 10.4-inch color touch screen for operator command plus data and graphics **display**, the system offers product and process analysis, including trend plots and SQC charts of every...

...40% mica revealed no warpage. The company says that although PP was used in the **display**, mica would be effective in other polyolefins as well. Literature at the booth summarized the...

...below 220(degrees)C. Samples of calcium carbonate ore and mica ore w ere

on **display** . Franklin Industrial Minerals, 1469 South Battleground Ave., Kings Mountain, NC 28086; (704)734-3550; faxfreund@netvision.net.il

Included in the **display** of Gala Industries, Inc., was information on its LPU laboratory pelletizing system, specifically designed for...line of injection molding and extrusion processing machinery, highlighted its advanced single-screw technology. On **display** were the Double Wave and Triple Wave screws, designed to disperse additives thoroughly and optimize ...

...solving capabilities to customers in industry, academia, and small business during the research, product development, **scale** -up, and production phases of projects. The staff forms partnerships with customers by developing analytical...to ensure consistent optimized performance. Heat transfer equipment for extrusion foam cooling was also on **display** . Koch-Glitsch, Inc., 4111 E. 37th Street North, Wichita, KS 67220; (316) 828-4145; fax...conjunction with its Ozone Water Treatment Systems, which are said to control microbiological growth; reduce **scale** and corrosion; and offer environmentally safe alternatives to potentially harmful chemicals. KW Environmental, Inc., 334...

...Ave., Englewood, CO 80112; (800) 525-8252; (303) 643-0400; fax (303) 643-0444.

On **display** for the first time at ANTEC was the SP-C single piston continuous screen changer...on its range of additives. Vinyzene antimicrobials and the BioPruf trademark were featured in the **display** . Antimicrobials offer both cosmetic protection--preventing surface growth, staining, and odor--and structural protection--guarding...

...instrument measures pressure drop and shaft speed to calculate viscosity and shear rate.

Also on **display** was the Viscoliner torsional in-line viscometer, which consists of a sensor, with a torsional...

...MA 01453; (978) 537-9529; fax (978)537-3220; website: www.polymers.com/npcm

On **display** at the NFM/Welding Engineers, Inc., booth was a working model of the Prism TSE...

...S. distributor for Prism.) Exhibited for the first time in the U.S., this lab- **scale** extruder features a modular barrel design up to 40:1 L/D in 4:1...Real-time graphing capability is available on the internal printer and on screen. Also on **display** was the Series 250 balance isolation platform for balances and moisture analyzers. For use on...

...of rotational and capillary rheometers for research, product development, and quality control. The company's **display** highlighted rotational devices including the UDS200 Universal Dynamic Spectrometer and the DSR4000 Dynamic Shear Rheometer...

...com

Several recently introduced instruments that measure chemical and physical properties of plastics were on **display** in the Perkin Elmer exhibit. The Pyris 1 TGA (thermogravimetric analyzer) is designed to fully ...broad range of testing and analysis for the entire polymer industry. PDI's unique lab- **scale** test for plastics processing emissions is said to be more cost-effective and timely than full- **scale** stack monitoring. Automated particle size analysis reportedly ensures adherence to benchmark standards for powder, pigment...evaluating viscoelastic properties. A customized unit consisting of an actuator, a torque and/or normal **force transducer** , and environmental controls, the system is said to provide a wider frequency range at high...

...show the maximum load, breakdown displacement, and other criteria on

digital LED displays.

Also on **display** were the TA-60WS (thermal analysis work station) and the DSC-60 (differential scanning calorimeter...stabilization specific to polymeric materials, paper, pulp, and adhesives. STR further provides prototype and full- **scale** manufacturing services via extrusion and injection molding. Specialized Technology Resources, Inc. (STR), 10 Water Street...

...part epoxy mixing, and featured polymerization technology used in low residual polystyrene production. Also on **display** was a range of static mixing products, including heat exchangers, polymer reactors, plastic processing homogenizers...

1/6,K/3 (Item 3 from file: 16)
DIALOG(R)File 16:(c) 2002 The Gale Group. All rts. reserv.

08595570 Supplier Number: 66280661 (USE FORMAT 7 FOR FULLTEXT)
Metering, Feeding and Blending.
Sept, 2000
Word Count: 8512

... and fillers. Materials test lab available to ensure exact specifications.

ACRISON, INC.

Model A405-V101 **weigh** feeder for metering dry solids at low-to-moderate rates can handle fibrous materials traditionally...

...10 to 600 lb/hr. (See also Compounding and Mixing Systems.)

AEC/HYDRECLAIM

ORW ratio- **weigh** blenders feature weighed virgin and regrind metering/conveying. When a preset weighed batch is dumped...

...Hand-held remote-control keypad can be located conveniently by the operator station.

Accumulative batch **weigh** blenders have menu-driven computer controls. Several units can interface with each other for total plant inventory control. OS Diamond Gate slide-gate **weigh** blenders can accurately meter from to 100%. (See ad p. 281.)

AEC/WHETLOCK

Optimum Series...

...applications. Series includes OS and OA gravimetric blenders and OL continuous gravimetric blenders. Totalizing OFE **weigh** systems available for accurate inventory management and control of process. OFI single-component **weigh** feeders available to precisely meter and track material.

Optimum Series **weigh** blenders utilize quick-clean design with capacities to 5000 lb/hr/ingredient (up to six...

...controls for intermittent or continuous processing provide accurate closed-loop, motor-speed control and digital **display** of setpoint. Options include extruder tracking and cycle timer/batch counter.

Smart microprocessor feeder control...

...injection features four closed-loop modes of operation and 40-character, two-line vacuum fluorescent **display**. (See ads pp. 267, 289.)

AMERICAN LEWA, INC.

Modular metering pumps and packaged systems for...through weighing, mixing, and downstream routing control to finished-product storage available using Select-O- **Weigh** 1000 computerized system with color graphics.

CLEVELAND VIBRATOR CO.

Light- and medium-duty vibratory feeders...

...mechanical mixing and potential for material segregation.

Gravimetric units provide continuous, high-accuracy, in-line **weigh** blending of up to eight ingredients. Pellets and powders fed at total throughput of over...

...serial communications link to host computer or to data recorder. Extrusion control packages also available: **weigh** /length control for profile and wire/cable coating, or **weigh** /area control for blown film, cast film, and sheet.

Volumetric continuous blenders automatically meter and...

...up to 8 materials depending on model. Computer-controlled units utilize two load cells that **weigh** each ingredient before it enters mixing chamber. Accuracy is 1/10 of 1% of the requested ratio and is achieved by using metering pinch valves. Standard features include LCD **display** of necessary data, 100-recipe memory, stainless-steel mix chamber, RS232 port for report generation...for simple, accurate calibration and recipe storage.

Other metering, feeding and blending products include: Auto **Weigh** totalizers for accurate weight monitoring of bulk materials (1600 to 7000 lb/hr) entering storage...

...Line of volumetric and gravimetric feeders includes twin-screw, singlescrew, vibrating tray and tube, and **weigh** belt feeders, which are pretested and preassembled.

Markets Brabender FlexWall feeder, which is a flexible...

...more pellet or powder materials and weighs minor ingredients as they are metered into a **scale** hopper. Blending is done in either a supplied dynamic mixer or a separate ribbon or high-intensity mixer. Systems deliver 100 to 8000 lb/hr of blended materials.

All **weigh** blenders have (+ or -) 0.5% accuracy. Larger models come standard with DX electronic controls, including...

...gear reducer, mounting bench, and microprocessor controller. Special forms available for PVC and fluoropolymers. Also **weigh** feeders used for large volumes. Both melt pumps and **weigh** feeders suited for use as part of a closed-loop control system.

HENDERSON INDUSTRIES

Specializes PVC. Systems utilize nonproprietary hardware and software.

Sub-systems supplied include resin **weigh** scales that interface with mixer and infeed system; chemical **weigh** scales in gain-in-weight or loss-in-weight configuration; plasticizer/oil scales, heated and...

...support, start-up, operator and maintenance training, and 24-hour service and parts coverage. Smart **Force transducer weigh** modules provide **weigh** feeder resolution 1:1 million. Feeder controls easily interfaced with PLC/DCS and configured for continuous or batch processes.

Weigh -belt feeders for controlling free-flowing pellets and granules are advantageous where low headroom is...

...where material content is not critical to the process. Units also used as prefeeders for **weigh** belts and in gain-in-weight batching applications. K2-Volumetric feeders offer same Powersphere and...

...limitations are a problem. Available in single-screw, twin-screw and vibratory models with interchangeable **scale**. Quick-exchange model allows color changes without having to clean the feeder.

Mass flow meter...

...coriolis flow meters. It can be used as an alternative to

loss-in-weight and **weigh** -belt feeders in high-rate applications, as a feedback device to the controller in continuous...vacuum blower.

LASITS-ROHLINE SERVICE, INC. L-R SYSTEMS

Line of auger-feed, vibratory-feed, **weigh** - **scale** , and loss-in-weight blenders for two to eight materials have capacities to 20,000...

...lb/hr or higher, resin and regrind are sequentially dispensed from hopper bins into a **weigh** chamber by high-speed slide-gate valves with an accuracy/dispense of (+ or -)4 g...unit can be quickly disassembled for fast clean out. PLC controls include a full-message **display** for easy operator interface and viewing of blending parameters. Control panel can be removed from...

...standard; also available with gaylord clearance and machine-mount bases.

GXB series Exac-U-Batch **weigh** **scale** blender for up to eight materials can be programmed to dispense materials in a multitude...

...Blenders are computer-controlled with an easy-to-read LCD screen. Two load cells precisely **weigh** each ingredient deposited into a **scale** hopper and then into a mixing chamber, producing an homogeneous mix. Processing rate is accurately...

...monitoring of the proximity level switch in the mixing chamber.

Ingredients are deposited into the **scale** hopper using a metering pinch valve assembly. Accuracy is maintained at 0.10 of 1...auger-feeder (cascading blender) reportedly can satisfy 99% of pellet-blending requirements without an expensive **weigh** feeder. Up to four materials are proportionally fed ((+ or -)1%) into cascading section of the...stream-out feeders, and volumetric feeders. Specializes in feeding of fibrous materials and micro-ingredient **weigh** systems.

SPIROL INTERNATIONAL CORP.

Series 2000 high-performance vibratory parts feeder reportedly maximizes efficiency and...

...and gain-in-weight gravimetric systems include a flexible-walled volumetric feeder mounted on a **scale** base and controlled with a closed-loop loss-in-weight controller, which can be configured to handle multiple feeders.

Bulk-bag unloading systems and **weigh** -belt feeders cover a range of feeding applications for most bulk powders and pellets. Also...

...of hard-sided volumetric feeders for materials, such as pellets, have good flow characteristics.

THAYER **SCALE** /HYIR INDUSTRIES

Line of gravimetric screw and vibratory loss-in-weight feeders, **weigh** belt feeders, belt scales, **display** and control instrumentation, and bin and hopper flow aids. Specializes in powder feeding such as additives and pigments, but also supplies equipment for feeding fibers, flakes, pellets and liquids.

Weigh feeder controller instrumentation is durable and user friendly. Installed drivers for serial interface with all...

...Materials Conveying and Resin Dryers.) (See ad p. 273.)

TRIDYNE PROCESS SYSTEMS

Net-weighing or **weigh** -counting machines and systems for dry materials. Features include preweighing and discharging, or continuous feeding...

...Microprocessor control stores up to 100 recipes, totalizes material, and displays take-away rate.

Target **weigh** blender uses fast acting dump valves and auger feeders to calculate and then deliver additives...

1/6,K/4 (Item 4 from file: 16)
DIALOG(R) File 16:(c) 2002 The Gale Group. All rts. reserv.

07114406 Supplier Number: 59363435 (USE FORMAT 7 FOR FULLTEXT)
AUXILIARY EQUIPMENT.
Jan, 2000
Word Count: 2840

... system. The Smart Control Environment also exploits increased speed of K-Tron's Smart **Force Transducer** (SFT II), the company's all-digital dynamic weighing device.
K-Tron also announces its...

...advances at Maguire Products Inc. have boosted the throughput rates of the company's entire **Weigh Scale** gravimetric blender line by up to 200% and, according to the company, without compromising accuracy...to shutdown. The company also recently introduced the Allen-Bradley programmable logic controller and touchscreen **display** as standard equipment on the TSW line of central chillers. The central chilling stations are...

...art controllers.
HEAVY-DUTY BLENDERS
Foremost Machine Builders, Inc.'s newest generation of BWB batch **weigh** blenders, in two-component to five-component models, are equipped with heavy-duty 12 gauge...

1/6,K/5 (Item 5 from file: 16)
DIALOG(R) File 16:(c) 2002 The Gale Group. All rts. reserv.

06118250 Supplier Number: 53728426 (USE FORMAT 7 FOR FULLTEXT)
WHAT'S NEW AT SAE'99.
Jan, 1999
Word Count: 14782

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...Here's a preview of what some of the exhibiting companies plan to introduce or **display** at this year's event scheduled for March 1-4, 1999, Cobo Center, Detroit, MI.
... 33 MFLOPS embedded DSP processor that delivers live 12-bit IR images on a VGA **display**, as well as real time averaging and storage in memory or hard disk.
For more...

...lighting
DBM Reflex Enterprises offers continuously variable axle reflex reflectors for wrap-around lamps. Its **display** will feature graphic simulation of photometric performances of reflex reflectors, as well as simulated reflex...information, circle #439 or visit booth #240
Analysis equipment facilitates data collection
DSP Technology will **display** a vehicle with hybrid engine technology, show-casing a new in-vehicle version of its...

...time, distance, absolute distance, peak power, amplitude, pressure, velocity, and force. The company will also **display** the SRT-300 Rotary Parts Handling System, designed for either semiautomatic or manual operations, and...scanner).
For more information, circle #444 or visit booth #974
Test equipment systems
Envirotronics will **display** its Solutions Plus

programmer/controller, utilizing touch screen-technology. The predictive care maintenance system reduces chamber downtime, and offers on-screen graphics, realtime pressure/temp **display** of operating system right on the schematic. Also featured will be its line of twin...

...spokes with a rectangular, rather than circular, cross section. Using standard steel rims, these wheels **weigh** 20% less than conventional steel wheels. In motion, the spider seems to disappear due to...improved user interface

Gould Instrument Systems' Delta 9500 digital storage oscilloscope features a larger color **display** and an improved user interface. The company will also **display** the DAstar data-acquisition system with enhancements that include an eight-channel ICP accelerometer signal...

...circle #464 or visit booth #2975

Infrared camera for thermal analysis studies

Inframetrics, Inc. will **display** its line of ThermaCAM X95 and X90 infrared cameras. The ULTRA X95 series includes three...399 [degrees]F), with a high degree of accuracy. It provides a 100 mV full- **scale** output in a small package and is just over 2.0 cm (0.78 in...

...485 or visit booth #850

Rocker cover with integrated oil separator

Mann & Hummel Automotive will **display** its rocker cover with integrated oil separator, the first with pure center bolts and decoupling ...Workshop 3 control design solutions, provide faster and more accurate simulation, optimized support for large- **scale** control applications, enhanced code generation, and new usability enhancements. This control design solution delivers a wheel integrated **force transducer**, as well as new powertrain test technologies, a virtual test system, analysis tools, and technologies for migration of test data to design and analysis centers, will be demonstrated. Also on **display**, the newest version of Component RPC III simulation testing software, and a working corner of...haze. The photometer generates a 640 x 480-pixel image with a digitized 256 gray **scale**. It uses TRICOR's Eyeppearance software to provide analysis tools used to establish photometric levels...

1/6,K/6 (Item 1 from file: 148)

DIALOG(R)File 148:(c)2002 The Gale Group. All rts. reserv.

11857462 SUPPLIER NUMBER: 59363435 (USE FORMAT 7 OR 9 FOR FULL TEXT)
AUXILIARY EQUIPMENT.

Jan, 2000

WORD COUNT: 3098 LINE COUNT: 00259

... system. The Smart Control Environment also exploits increased speed of K-Tron's Smart **Force Transducer** (SFT II), the company's all-digital dynamic weighing device.

K-Tron also announces its...

...advances at Maguire Products Inc. have boosted the throughput rates of the company's entire **Weigh Scale** gravimetric blender line by up to 200% and, according to the company, without compromising accuracy...to shutdown. The company also recently introduced the Allen-Bradley programmable logic controller and touchscreen **display** as standard equipment on the TSW line of central chillers. The central chilling stations are...

...art controllers.

HEAVY-DUTY BLENDERS

Foremost Machine Builders, Inc.'s newest generation of BWB batch **weigh** blenders, in two-component to five-component models, are equipped with heavy-duty 12 gauge...

1/6,K/7 (Item 2 from file: 148)
DIALOG(R) File 148:(c)2002 The Gale Group. All rts. reserv.

10803390 SUPPLIER NUMBER: 53728426 (USE FORMAT 7 OR 9 FOR FULL TEXT)
WHAT'S NEW AT SAE'99.

Jan, 1999

WORD COUNT: 15890 LINE COUNT: 01374

TEXT:

...Here's a preview of what some of the exhibiting companies plan to introduce or **display** at this year's event scheduled for March 1-4, 1999, Cobo Center, Detroit, MI.

... 33 MFLOPS embedded DSP processor that delivers live 12-bit IR images on a VGA **display**, as well as real time averaging and storage in memory or hard disk.

For more...

...lighting

DBM Reflex Enterprises offers continuously variable axle reflex reflectors for wrap-around lamps. Its **display** will feature graphic simulation of photometric performances of reflex reflectors, as well as simulated reflex...information, circle #439 or visit booth #240

Analysis equipment facilitates data collection

DSP Technology will **display** a vehicle with hybrid engine technology, show-casing a new in-vehicle version of its...

...time, distance, absolute distance, peak power, amplitude, pressure, velocity, and force. The company will also **display** the SRT-300 Rotary Parts Handling System, designed for either semiautomatic or manual operations, and...scanner).

For more information, circle #444 or visit booth #974

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Envirotronics will **display** its Solutions Plus programmer/controller, utilizing touch screen-technology. The predictive care maintenance system reduces chamber downtime, and offers on-screen graphics, realtime pressure/temp **display** of operating system right on the schematic. Also featured will be its line of twin...

...spokes with a rectangular, rather than circular, cross section. Using standard steel rims, these wheels **weigh** 20% less than conventional steel wheels. In motion, the spider seems to disappear due to...improved user interface

Gould Instrument Systems' Delta 9500 digital storage oscilloscope features a larger color **display** and an improved user interface. The company will also **display** the DASTAR data-acquisition system with enhancements that include an eight-channel ICP accelerometer signal...

...circle #464 or visit booth #2975

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Inframetrics, Inc. will **display** its line of ThermaCAM X95 and X90 infrared cameras. The ULTRA X95 series includes three...399 (degrees)F), with a high degree of accuracy. It provides a 100 mV full- **scale** output in a small package and is just over 2.0 cm (0.78 in...

...485 or visit booth #850

Rocker cover with integrated oil separator

Mann & Hummel Automotive will **display** its rocker cover with integrated oil separator, the first with pure center bolts and decoupling ...Workshop 3 control design solutions, provide faster and more accurate simulation, optimized support for large- **scale** control applications, enhanced code generation, and new usability enhancements. This control design solution delivers a wheel integrated **force transducer**, as well

as new powertrain test technologies, a virtual test system, analysis tools, and technologies for migration of test data to design and analysis centers, will be demonstrated. Also on **display**, the newest version of Component RPC III simulation testing software, and a working corner of...haze. The photometer generates a 640 x 480-pixel image with a digitized 256 gray **scale**. It uses TRICOR's Eyeppearance software to provide analysis tools used to establish photometric levels...

1/6,K/8 (Item 3 from file: 148)
DIALOG(R)File 148:(c)2002 The Gale Group. All rts. reserv.

10458773 SUPPLIER NUMBER: 21127409 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Metering, feeding and blending.(1998/1999 **Manufacturing Handbook & Buyers' Guide**)(**Buyers Guide**)
August, 1998
WORD COUNT: 8706 LINE COUNT: 00739

... and fillers. Materials test lab available to ensure exact specifications.

ACRISON, INC.

Model A405-V101 **weigh** feeder for metering dry solids at low-to-moderate rates can handle fibrous materials traditionally...

...10 to 600 lb/hr. (See also Compounding and Mixing Systems.)

AEC/HYDRECLAIM

ORW ratio- **weigh** blenders feature weighed virgin and regrind metering/conveying. When a preset weighed batch is dumped...

...Hand-held remote-control keypad can be located conveniently by the operator station.

Accumulative batch **weigh** blenders have menu-driven computer controls. Several units can interface with each other for total plant inventory control. OS Diamond Gate slide-gate **weigh** blenders can accurately meter from 1/2% to 100%.

AEC/WHITLOCK

Optimum Series blender product...

...applications. Series includes OS and OA gravimetric blenders and OL continuous gravimetric blenders. Totalizing OFE **weigh** systems available for accurate inventory management and control of process. OFI single-component **weigh** feeders available to precisely meter and track material.

Optimum Series **weigh** blenders utilize quick-dean design with capacities to 5000 lb/hr/ingredient (up to six...

...controls for intermittent or continuous processing provide accurate closed-loop, motor-speed control and digital **display** of setpoint. Options include extruder tracking and cycle timer/batch counter.

Smart microprocessor feeder control...

...injection features four closed-loop modes of operation and 40-character, two-line vacuum fluorescent **display**. (See ads pp. 281, 301.)

AMERICAN LEWA, INC.

Modular metering pumps and packaged systems for...through weighing, mixing, and downstream routing control to finished-product storage available using Select-O- **Weigh** 1000 computerized system with color graphics.

CINCINNATI MILACRON PLASTICS TECHNOLOGIES GROUP

Pellet feeders are microprocessor...

...mechanical mixing and potential for material segregation.

Gravimetric units provide continuous, high-accuracy, in-line **weigh**

blending of up to eight ingredients. Pellets and powders fed at total throughput of over...

...serial communications link to host computer or to data recorder. Extrusion control packages also available: **weigh** /length control for profile and wire/cable coating, or **weigh** /area control for blown film, cast film, and sheet.

Volumetric continuous blenders automatically meter and...uses aluminum metering discs for high accuracy. Modular metering/mixing units allow for future expansion.

Weigh blenders meter material onto a **scale** using patented metering disc. Capable of blending both free-flowing and nonfree-flowing materials at...

...of volumetric and gravimetric feeders includes twin-screw, single-screw, vibrating tray and tube, and **weigh** belt feeders, which are pretested and preassembled.

Markets Brabender FlexWall feeder, which is a flexible...more pellet or powder materials and weighs minor ingredients as they are metered into a **scale** hopper. Blending is done in either a supplied dynamic mixer or a separate ribbon or high-intensity mixer. Systems deliver 100 to 8000 lb/hr of blended materials.

All **weigh** blenders have (+ or -)0.5% accuracy. Larger models come standard with DX electronic controls, including...

...Systems have metering pump, precision digital drive, gear reducer, mounting bench, and microprocessor controller. Also **weigh** feeders used for large volumes, or where corrosive plastics are to be used. Both melt pumps and **weigh** feeders suited for use as part of a closed-loop control system.

HENDERSON INDUSTRIES
Specializes...

...rigid and flexible PVC. Systems utilize nonproprietary hardware and software.

Sub-systems supplied include resin **weigh** scales that interface with mixer and infeed system; chemical **weigh** scales in gain-in-weight or loss-in-weight configuration; plasticizer/oil scales, heated and...

...support, start-up, operator and maintenance training, and 24-hour service and parts coverage. Smart **Force transducer weigh** modules provide **weigh** feeder resolution 1:1 million. Feeder controls easily interfaced with PLC/DCS and configured for continuous or batch processes.

Weigh -belt feeders for controlling free-flowing pellets and granules are advantageous where low headroom is...

...where material content is not critical to the process. Units also used as prefeeders for **weigh** belts and in gain-in-weight batching applications. K2-Volumetric feeders offer same Powersphere and...

...limitations are a problem. Available in single-screw, twin-screw and vibratory models with interchangeable **scale** . Quick-exchange model allows color changes without having to clean the feeder.

Mass flow meter...in-weight feeder.

Also K-Blend continuous loss-in-weight blenders for high-accuracy, inline **weigh** blending of up to eight ingredients. Pellets and powders fed at total throughput of over...

...vacuum blower.

LASITS-ROHLINE SERVICE, INC. L-R SYSTEMS

Line of auger-feed, vibratory-feed, **weigh - scale** , and loss-in-weight blenders for two to eight materials have capacities to 20,000...load cells ensures repeatable weightment with (+ or -)1 g accuracy. PLC controls with full-message **display** allow easy operator interface and monitoring blender parameters and performance. Prisma units

are expandable for...

...standard; also available with gaylord clearance and machine-mount bases.

GXB series Exac-U-Batch **weigh scale** blender for up to eight materials can be programmed to dispense materials in a multitude...

...Blenders are computer-controlled with an easy-to-read LCD screen. Two load cells precisely **weigh** each ingredient deposited into a **scale** hopper and then into a mixing chamber, producing an homogeneous mix. Processing rate is accurately...

...monitoring of the proximity level switch in the mixing chamber.

Ingredients are deposited into the **scale** hopper using a metering pinch valve assembly. Accuracy is maintained at 0.10 of 1...weighing accuracies from (+ or -)0.1% for batching blenders to (+ or -)0.5% of full-**scale** capacity for continuous loss-in-weight system. Each system can blend two to eight or...

...and changeover. Microprocessor controls standard. Continuous loss-in-weight system available with 12-color CRT **display**.

AFCB (auger-feeder cascading blender) reportedly can satisfy 99% of pellet-blending requirements without an expensive **weigh** feeder. Up to four materials are proportionally fed ((+ or -)1%) into cascading section of the...

...mainline and liquid additive), two-component systems (epoxies, polyurethanes), adhesives, melt-blown nonwovens, and commercial- **scale** , polymer-reactor pumps.

Line of standard gear-pump styles meets all viscous liquid metering needs...stream-out feeders, and volumetric feeders. Specializes in feeding of fibrous materials and micro-ingredient **weigh** systems.

SPIROL INTERNATIONAL CORP.

Series 2000 high-performance vibratory parts feeder reportedly maximizes efficiency and...

...and gain-in-weight gravimetric systems include a flexible-walled volumetric feeder mounted on a **scale** base and controlled with a closed-loop loss-in-weight controller, which can be configured to handle multiple feeders.

Bulk-bag unloading systems and **weigh** -belt feeders cover a range of feeding applications for most bulk powders and pellets. Also...

...of hard-sided volumetric feeders for materials, such as pellets, have good flow characteristics.

THAYER **SCALE** /HYER INDUSTRIES

Line of gravimetric screw and vibratory loss-in-weight feeders, **weigh** belt feeders, belt scales, **display** and control instrumentation, and bin and hopper flow aids. Specializes in powder feeding such as additives and pigments, but also supplies equipment for feeding fibers, flakes, pellets and liquids.

Weigh feeder controller instrumentation is durable and user friendly. Installed drivers for serial interface with all...

...Materials Conveying and Resin Dryers.) (See ad p. 289.)

TRIDYNE PROCESS SYSTEMS

Net-weighing or **weigh** -counting machines and systems for dry materials. Features include preweighing and discharging, or continuous feeding...Microprocessor control stores up to 100 recipes, totalizes material, and displays take-away rate.

Target **weigh** blender uses fast acting dump valves and auger feeders to calculate and then deliver additives...

1/6,K/9 (Item 4 from file: 148)
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08124425 SUPPLIER NUMBER: 17389671 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Plastics technology: manufacturing handbook & buyers' guide 1995/96. (Buyers Guide)

August, 1995

WORD COUNT: 174436 LINE COUNT: 15187

... or as sophisticated measuring systems providing process parameters for research, product development, q-c, and **scale** -up. Extruders can be attached to a simple drive motor or Rheocord 9000 torque rheometer...

...or economics of continuous vs. batch mixing. TW-100 also can serve as a small- **scale** production line.

Complete line of segmented or clam-shell parallel twin-screw compounders.

Line of...

...Digipanel microprocessor controllers, nuclear thickness gauges, and laser gauging systems. Other accessories include melt pumps, **weigh** feeders, and a unique Rollerpuller. Elements integrated into complete, prepackaged extrusion systems for tubing or...downstream equipment for film (mono- and biaxially oriented), sheet, profile, and fiber. Extruders from lab **scale** up to 8-in. diam. with all accessories, plus computer-designed single- and multilayer flat...for agricultural film. Wide selection of auxiliary equipment.

PLASTICS EQUIPMENT MARKETING SERVICES

Production and laboratory **scale** extrusion systems for blown film, sheet, profiles, pipe, and compounding. Extruders in 1/2-in...

...Proprietary design allows feeding of low-bulk-density powders or pellets. Screw design offers good **scale** -up and mixing. Complete systems available for film, fiber, sheet, devolatilization, compounding/pelletizing and seven...film extrusion lines with 45- to 120-mm extruders for LLDPE, LDPE, HDPE and coextrusion. **Weigh** blenders, color feeders, trim feedback, grinders, repelletizers, film-sealing machines for post-gusseting and slit ...pp. 105-107.)

KILLION EXTRUDERS, INC. DAVIS-STANDARD CORP.

Strand pelletizers for lab or small- **scale** production in bench and floor models. Feed throats from 2 to 4 in., variable-speed...pour and spray foam systems are for applications such as reach-in coolers and freezers, **display** cases, flotation, ice machines, construction panels, refrigerated trucks, and picnic coolers. Other systems include Ureflex...pouring, with hand-held, self-cleaning, light-weight guns.

- * Specialized low-pressure metering equipment.

- * Lab- **scale** metering machinery and data-acquisition software.

- * RIM recycling equipment.

- * RIM, RRIM, RTM, SRIM molding, booking...equipment can be supplied as part of a system. Lab and pilot-plant to full- **scale** production capability. Equipment incorporates up to 80% solid fillers in urethane foams.

SEALANT EQUIPMENT & ENGINEERING...to six axes, extreme flexibility, and ability for rapid product changeover. Also low-cost, lab- **scale** , full-featured, three-axis, computer-controlled winder.

Prepreg-tape production lines. Modular design allows choice...built for low maintenance. Automatic flying cutoff saw and Computrac computer control with color CRT **display** . Records temperature, clamp pressure, pulling speed, run time, purge cycle, length of cut, length of...

...include d-c drives with optional all-digital drive. Load-cell force gauge available to **display** pulling force.

DESIGN EVOLUTION 4, INC.

RTM equipment includes custom-designed pneumatic presses, molds, mold ...field installation, control panels for temperature and pressure cure cycles, process-variable recorders with graphic **display**, and vacuum-monitoring and recording panels to ensure part quality.

Mini-Bonder is a lab...to 75 gal.

AEC/WHITLOCK

Blending systems for free-flowing materials include volumetric, gravimetric, batch- **weigh** and loss-in-weight systems. SMA, WVB and LMA volumetric blenders continuously blend up to...

...ingredient. Can be machine-mounted or floor-mounted.

For more precise blending, WVB series batch- **weigh** blenders and WLB series weight-loss blenders have microprocessor-based controls to deliver accuracies better...Multi Flow blender, a compact hopper-mounted unit, blends three materials without separation.

Gravimetric Multi **Weigh** blender augments standard range of volumetric Multi Flow blenders. Utilizes up to eight metering modules Inc.

CONAIR FRANKLIN THE CONAIR GROUP, INC.

Eighteen models of AutoWeigh gravimetric blenders precisely **weigh** and blend up to eight different materials in batch sizes of 2.2 to 39... materials and weighs minor ingredients (pellets, powders, or liquids) as they are metered into a **scale** hopper. Blending is done in either a supplied dynamic mixer or a separate ribbon or...

...These larger systems deliver 400 to 8000 lb/hr of blended materials.

Model 1200 D **weigh** blender is used as an individual machine blender or small central blender for up to...

...to a weighing chamber. A complete batch is then discharged into a mixing chamber.

All **weigh** blenders have + or -|0.5% accuracy. Larger models come standard with DX electronic ...between virgin and color. Also Large central blenders to 15,000 lb/hr.

RWIMB ratio- **weigh** blenders feature weighed virgin and regrind metering/conveying. When a preset weighed batch is dumped...

...Menu-driven microprocessor control and RS485 serial port for communications available.

The 400 series accumulative **weigh** blenders have menu-driven computer controls. Several of these units can interface with each other...mechanical mixing and potential for material segregation.

Gravimetric units provide continuous, high-accuracy, in-line **weigh** blending of up to eight ingredients. Pellets and powders fed at total throughput of over...

...AMERICA

K-Tron Soder volumetric and gravimetric feeders and controls for compounding include patented Smart **Force transducer weigh** modules, which provide **weigh** -feeder resolution of 1:1 million. Feeder controls easily interfaced with user's PLC/DCS and may be configured for continuous or batch processes.

Full line of **weigh** -belt and loss-in-weight feeders. K2-Modular feeders feature Powersphere feeder module for fast...vacuum blower.

LASITS-ROHLINE SERVICE, INC. L-R SYSTEMS

Line of auger-feed, vibratory-feed, **weigh - scale**, and loss-in-weight blenders for two to eight materials have capacities to 20,000...

...and reduces temperature differentials downstream to less than 3.5 degrees| F.

Smartblend gravimetric, cumulative **weigh** blender for multi-ingredient blending provides blend ratios with accuracies by weight of 0.25...additive metering equipment includes auger feeders for pelletized color and regrind, pumps for liquid color, **weigh - scale** blenders,

premixers for color and natural material, resin and color loaders, magnet drawers, and other...a demand signal, the computer runs all ingredient feeders at required rates until satisfied.

Xactabatch **weigh - scale** batch blender is for two to six ingredients. Microprocessor control uses two load cells mounted on a single **weigh - scale** hopper, weighs each ingredient dispensed, and deposits the total batch into a mixing chamber. PLC...

...weighing accuracies from + or -|0.1% for hatching blenders to + or -|0.5% of full- **scale** capacity for continuous loss-in-weight system. Each system can blend two to eight or...

...changeover. Micro, processor controls standard. Continuous loss-in-weight system available with 12-color CRT **display** .

AFCB (auger-feeder cascading blender) reportedly can satisfy 99% of pellet-blending requirements without an expensive **weigh** feeder. Up to four materials are proportionally fed (+ or -|196) into cascading section of the **Weigh** Master gravimetric blending systems handle powders, granules and pigments, in addition to nonfree-flowing materials...

...shaft mixers (vacuum/pressure/jacketed capabilities), and double planetary vacuum mixers. All available from lab **scale** to full production units. Company's engineering arm, Integrated Process Systems, can provide any level...

...extruder throat, eliminating chance of demixing. Features include increased computer speed and memory, factory-wired **weigh** and drive systems, SPI standard interface, easy access for machine cleanout, integral loading platform, and...standing cabinet or on machine base for smaller models include multichannel temperature controllers with digital **display** of set and actual values. Optional microprocessor controller offers color CRT, graphic displays of measured...flexibility of configuration. Standard controls in free-standing cabinet include multichannel temperature controllers with digital **display** of set and actual values. Optional microprocessor controller offers color CRT, graphic displays of measured...lb parisons, including industrial parts, automotive components (e.g., air-conditioner ducts, gas tanks), and **display** cabinets.

STAN-CAST, INC.

Complete moldmaking facility with CNC EDM duplicating and foundry to cast...an intuitive user interface, 12 to 384 zones of control, and full-color CRT graphic **display** of all set-points, actual temperatures, and power outputs. All process changes are made with...

...8 or 12 zones at 240 VAC/15 amps/zone has back-lit LCD graphic **display** of actual temperature vs. setpoint, as well as power output. Comes standard with RS232 serial...

...controller for hot-sprue bushings or single-heater applications up to 15 amps features dual **display** , fused and grounded circuitry, CompuStep start-up, manual and closed-loop control, and power on...Protection (COP) offers triple-redundant protection against short circuits without replacement of fuses. Plain-English **display** of volts and amps provides instant heater status at no extra cost. Alarm output and...

...based, PID self-tuning; reacts to + or -|1 degrees| F change from setpoint. Digital LED **display** , soft-touch data keypad, ground-fault detection, softstart, thermocouple-break protection, error analysis, fault **display** , and percentage-output **display** of one or all zones. Units switchable from amps to degrees| F. Interface link to...

...failure and switch automatically to continue running at steady state. AutoSoft warm-up, percentage-power **display** , dual-function set-point, degrees| F or degrees| C **display** , three alarms, 14 self-diagnostic features, and ...15 amps and 120 or 240 v with time-proportioned power,

automatic softstart, and digital **display** . Standard housings have 1 to 12 zones. Also single-zone housings with 30-a output...be stacked to achieve any number of zones. Control modules available with PID, digital LCD **display** , and adjustable power output.

OSCO INC.

Specializes in valve-gate nozzles. Designed to run conventionally...

...amps/zone (40 amps optional). Data storage for up to 10 mold setups, full-time **display** of all zone operating parameters, RS232/484 serial output port, and optional SPC monitoring with output to a host computer. Diagnostics instantly alarm and **display** control and mold electrical problems as well as corrective action to be taken.

PLASTIC PROCESS...interfaces. Advanced version based on an IBM AT-compatible computer with flat-screen color-graphics **display** and touchscreen input is provided for high-cavitation systems. A lower-cost operator interface based...

...concentricity.

Provides output signals to process and handling controls, real-time displays, statistical analysis and **display** of process and production data, printed reports and computer files of process and production data...

...multiple machines and handles auxiliary equipment with optional integration module. CIMAC 8000 captures data for **display** in graphic or tabular form for on-line analysis. Data can be transmitted to a... correlation of process and measurement parameters. Real-time Job Scheduler with color-coded Gantt chart **display** provides automatic update of jobs in progress based on actual cycle, setup, and downtime data...It is a small unit with full-touch keypad and 2 x 40 backlit LCD **display** . Accepts six digital inputs.

Series 4000 offers the same monitoring features as Series 5000 and...
...Series 5000 is a rugged unit with full-touch keypad and 2 x 40 VFD **display** . Monitors up to 32 parameters from a possible set of 10 digital, 15 thermocouple, and...

...with full-touch keypad, optional touchscreen and 640 x 480 VGA-resolution LCD or EL **display** , is based on a 386 microprocessor with options to use a 387 coprocessor or 486 microprocessor. Unit monitors a max. of 16 digital, 15 thermocouple, and eight analog inputs. Large **display** enables presentation of intracycle profiles and SPC and SQC charts at the IMAC.

EPM Series...

...IMAC at the machine. Software provides reporting facilities for production, engineering, maintenance, SPC, and SQC. **Display** gives machine status at a glance. Scheduler provides basic job-queue generation, as well as...

...Paragon TNT family is easy to use with a graphical environment and an object-oriented **display** builder. Windowing operator interface supports both object-based and bit-mapped graphics, and can be...five automatic downtime-reason machine inputs and batch-counter capability. MDT-11 adds numeric data **display** capability. MDT-20 adds 40-character alphanumeric **display** ; keypad for operator data entry; 20 downtime and 20 reject reason classifications; eight inputs for...

...corrective action and nonconformance tracking, product traceability through raw materials, user-definable SPC reporting and **display** of real-time data, certificates of analysis/test, downtime and waste tracking, and production reporting...

...be purchased in two styles: 1) keypad version, which has a 40-character vacuum fluorescent **display** with user-definable "soft" keys and numeric

keypad; and 2) ELTS version, which features a 640 x 400 pixel electroluminescent touchscreen **display** at the machine, allowing plant-floor personnel access to the same screen shown on system...of flat-panel electroluminescent (EL) or LCD operator station. Flat-panel EL stations have graphics **display** capability with 640 x 400 viewing area. Measure 11 in. wide x 15.5 in...

...editor software can be used to create new or modified MACO 4000, 5000, and 6000 **display** configurations.

MACO 4000 series 12-slot injection control system has six zones of PID autotuning...temperature, and drive controls. Industry-standard X-Window system graphics provide fully interactive real-time **display** access from networked PCs and workstations for remote monitoring.

FILMASTER INC.

Dataline 2000 microprocessor extrusion...

...film coextrusion applications are CRT monitoring of die-zone heating with setpoint, actual and deviation **display**, melt temperature, melt pressure, extruder rpm, extruder motor amperage, main line speed, die-zone amperage...

...14- or 19-in. Advanced Alphix multitasking microcomputer with a significant level of data storage/ **display** /analysis, SQC/SPC, and diagnostic capabilities. Available for new machines and as retrofits.

HARREL, INC...speed, holding, back-pressure, and shot volume. Also setpoint entry, storage of setups, monitoring and **display** of process variables, good/bad part sorting, reporting of production and rejects, and temperature control...

...automatically be adjusted.

PPC Ultrasonic Measurement & Control System provides a continuous 360 degrees| thickness-profile **display**, which provides ready reference for die-centering setup, typically on wire or pipe lines. Closed...and monitored by Command Sentry 1500. High-resolution, menu-driven color touchscreen has four-quadrant **display**. Real-time trending is standard. Options include real-time SQC charting, melt-pump interface, and...

...cushion correction, and 10-stage rampable profiles of injection velocity, packing pressure, and backpressure with **display** of actual velocity and pressure curves. Large I/O capacity enables control of any size...heat transfer eliminates hot spots pulling. Only one water line is required. Thermal Pins eliminate **scale** and plugging of small-diameter water channels going into the core, reducing maintenance, and can...fast response, standard industrial type-K thermocouple probes, resolution of 1 degrees| F, and LCD **display**. Accurate to + or -|0.8% on -35 F to 850 F range; + or -|1% of...range of thermocouple inputs, 1 degrees| or 0.1 degrees| resolution, degree C or F **scale**, and programmable filter. Options include RS232 serial interface, dual-relay setpoints, and analog output with...

...AN2402.

ATHENA CONTROLS, INC.

Hot-runner and panel temperature controls include IMP controller with dual **display** and CompuStep start-up in 15- and 30-amp configurations. AIM controller, in combination with...

...a terminal or IBM-compatible PC. The 1/16-DIN XT16 panel controller has dual **display**, four configurable outputs, and optional digital communication.

New PIM portable single-zone temperature controller for hot-sprue bushings or single-heater applications up to 15 amps features dual **display**, fused and grounded circuitry, CompuStep start-up, manual and closed-loop control, and power on...

...A 21-segment LED bar graph on series 15Q provides control status at a glance. **Display** is selectable as a percentage-output indicator or as a deviation from setpoint graph with programmable **scale** for each deviation indicator.

Series 10 and series 15 controllers can be set up completely... thermometers.

CR MAGNETICS, INC.

Line of electrical heater monitoring products includes Current Ring indicators that **display** operation of electrical heater elements in molding machines. Attached to wire leading to heater element...

...Control modules are microprocessor-based with multifunctional digital displays. SSM and DSS modules feature digital **display** of setpoint and process temperature, auto/manual mode selection, and heater-dryout function automatically actuated...

...to 800 F.

Model 1330 temperature controller has 1/8-DIN plug-in design, digital **display** and setpoint, + or -|0.3% full- **scale** accuracy, upfront adjustment of control parameters, on/off or PID control, and optional deviation alarms...

...F/C with quick readings displayed to 0.1 degrees| F resolution on large LCD. **Display** shows minimum, maximum, difference, and average temperature, and high/low audible alarms. Emissivity is adjustable...when heater is over or under temperature or causing ground fault. Units include multipurpose LED **display**, dual-function digital setpoint, and automatic thermocouple fault compensation. Various standard electrical configurations include 240 ...

...3 1/2 in.

DTM-100 panel-mount temperature readout offers 3/4-in. LCD **display** visible in ambient lighting. High-impact plastic case mounts is 1/4-DIN. Standard 0...

...1/16-DIN) and 1000 (1/8-DIN) single-loop temperature controllers feature dual LED **display** for simultaneous viewing of process and set-point values. Units provide relay, logic, or triac...

...Models 3300 (1/8-DIN) and 4300 (1/4-DIN) controllers have backlit, multifunction LCD **display**; data-acquisition rates of six samples/sec; and digital communications capability. Relay, logic, analog, or...

...loop temperature controller with NEMA-3 splashproof faceplate accepts two independent inputs. Each channel has **display** and keypad controls.

Models 100, 200, 201 panel meter/alarm units, 1/16- and 1/8-DIN, are fully configurable. Model 201 features 3 1/2-digit, 14-mm **display**; Model 100 a 3-digit, 14-mm **display**; and Model 200 a 3-digit, 20-mm **display**. Four operational software levels accessible only by entry codes.

GENERAL EASTERN INSTRUMENTS

For monitoring liquid...amps and 120 or 240 v with time-proportioned power, automatic soft-start, and digital **display**. One to 12 zones. Also single-zone housings with 30-a output working off standard...

...v.

Equipment for directly reading hot-melt temperature includes DT-2 temperature indicator with LED **display** and 1/4-DIN housing, and either retrofit hot-melt thermocouple or matched-set injection...

...monitoring and control. Model 370 indicating temperature controller has dual setpoints, 3.5-in. mirrored **scale**, and relay outputs. Can be used as direct replacement in most equipment. Options allow customization.

Model 400 indicating pyrometer features 4.5-in. mirrored **scale**, and can be used with J-, K-, and T-type thermocouples.

JMS SOUTHEAST, INC.
Custom...

...heat-up (all zones heat up according to rate of slowest zone).

Options include GA13 **display** unit that selectively indicates temperature, setpoint, percentage output of all 13 zones; and RS232 serial ...

1/6,K/10 (Item 5 from file: 148)
DIALOG(R)File 148:(c)2002 The Gale Group. All rts. reserv.

07883473 SUPPLIER NUMBER: 16925469 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Plant. (food processing equipment)
March, 1995
WORD COUNT: 8532 LINE COUNT: 00670

... C, displayed to a resolution of 0.1 [degrees] C and this is switchable to **display** -58 [degrees] to +302 [degrees] F, to a resolution of 1 [degree] F.

Aeroglide Spin...

...and refrigerated shelf-life properties than traditional heat processing methods.

HPP equipment, ranging from laboratory **scale** to full size production ...various applications across the world, it was only in 1991 that they introduced a laboratory **scale** HPP press specifically for research with food products, and this was followed by full size...

...of the roller mill; this controls the clamshell-type gate at the hopper outlet. A **force transducer** measures the weight of the material in the hopper.

Readers wanting more information about this...their new ETI 2000 series of hand-held digital thermometers.

These lightweight, portable instruments will **display** temperatures over the range -49.9 [degrees] to +1200 [degrees] C with a 0.1...

...1 [degrees] C or 1 [degrees] F resolution. The thermometers feature a 12.5mm LCD **display**, with [degrees] C/[degrees] F, Hold, Open Circuit and Low Battery indication.

There are three...

...silicone rubber push buttons, incorporating a hold facility, which enables the user to freeze the **display** for ease of reading. The ETI 2001 has the additional benefit of a [degrees] C...

...of Daewoo lift trucks.

These trucks, manufactured by Daewoo Heavy Industries of Korea, were on **display** at the recent International Handling and Storage Exhibition. Their range covers diesel pneumatic tyred counterbalanced...with ruggedness and reliability are necessary attributes for equipment for food packaging operations.

The Salter **Weigh** -Tronix 3275 has all these attributes. Its colour graphic **display** shows all the necessary information in a form that is easily understood.

Acceptable weights produce a green **display** for immediate acceptance, a red **display** tells the operator to stop as the product is too light, and a yellow **display** warns the operator that the product is too heavy.

The 3275 allows precise monitoring of...

...readings that don't slow the production line for a second longer than necessary.

Salter **Weigh** -Tronix Ltd of George Street, West Bromwich, Birmingham

B70, tel:0121-553 1855 tell us...correction filter to give illumination equivalent to Illuminant c, as defined in the CIE colour **scale** . A porcelain reflection surface provides the reference for the glass colour standards but the fullest...is a stand-alone instrument complete with its own keyboard controller, with built-in digital **display** . It can be connected either to a computer or a printer.

This accurate instrument allow...

...the maximum strength, co-efficient of variation, standard deviation and standard error.

Low Profile Platform **Scale**

The new LP35 platform **scale** from Deeter Weighing Systems combines the merit of an ultra low platform height of only...
...500kg.

Of sturdy H-frame construction, with four individual loadcells mounted at the extremities, this **scale** has a 750mm square platform. Clip-on ramps provide for easy wheel-on/wheel-off...an optical measuring machine, especially for fish and fish products, that can both grade and **weigh** product in a fraction of the time spent on alternative labour-intensive sorting methods.

Using...

1/6,K/11 (Item 6 from file: 148)

DIALOG(R) File 148: (c)2002 The Gale Group. All rts. reserv.

07507249 SUPPLIER NUMBER: 15717523 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Metering and feeding. (plastics machinery) (Manufacturing Handbook & Buyers' Guide 1994/95) (Directory)

July 15, 1994

WORD COUNT: 5677 LINE COUNT: 00478

... with deviations as low as [+ or -]0.25%. Dual-paddle screw feeder sits atop a **scale** that counterbalances out the dead weight of feeder and hopper, delivering maximum resolution and accuracy...

...and hopping equipment for precision handling of dry, solid and liquid materials.

Model A405-V101 **weigh** feeder for metering dry solids at low-to-moderate rates can handle fibrous materials that...

...and blenders includes models for up to four materials, as well as volumetric blenders and **weigh** blenders for two, three or four materials.

Model AM-1 additive feeder meters pelletized or...

...continuous processing in injection or extrusion have accurate closed-loop motor speed control and digital **display** of setpoint. Options include extruder tracking and cycle timer/batch counter for injection.

Smart additive...

...four closed-loop modes of operation. Control communicates via 40-character, two-line vacuum fluorescent **display** .

Precision series volumetric blenders accurately blend up to four materials in a single, self-contained...

...available. Blending control system features individual motor speed controls with digital readouts.

Precision series batch **weigh** blenders available in quick-clean design with capacities to 5000 lb/hr for two to...

...through weighing, mixing, and downstream routing control to finished-product storage available using Select-O- **Weigh** 900 computerized system with color graphics.

CINCINNATI MILACRON U.S. PLASTICS MACHINERY DIV.

Pellet feeders...bench scales, floor scales and related peripheral equipment.

Patented dual-sensor Multiple Load-cell Counting **Scale** (MLC) provides the sensitivity of multiple scales for quick and accurate sampling of the smallest...

...units.

HARREL, INC.

Offers melt pumps, which precisely meter plastic out of the extruder, and **weigh** feeders, which precisely meter plastic into the extruder.

Melt-pump systems range from less than...

...hr. Systems have metering pump, precision digital drive, gear reducer, mounting bench, and microprocessor controller. **Weigh** feeders are used for large volumes, or where corrosive plastics are to be used. Complete range of sizes is offered. Both melt pumps and **weigh** feeders suited for use as part of a closed-loop control system.

HYDRECLAIM CORP.

Offers Ratio **Weigh** Injection Molding Blender (RWIMB), a **weigh** blender specifically for injection molding. RWIMB conveys and weighs virgin and regrind to any preset...

...mixer. Unit is controlled by an advanced menu-driven microprocessor with keypad input and LCD **display**. Inventory is kept on all materials with RS232, RS422, RS485, and SPI communications. Blending rates...engineering installation support, startup, operator and maintenance training, and service and parts coverage available. Smart **Force Transducer weigh** modules provide **weigh** feeder resolution 1:1 million. Feeder controls can be easily interfaced with PLC/DCS and configured for continuous or batch processes.

Weigh -belt feeders, used to control free-flowing pellets and granules, are advantageous where low headroom...

...where material content is not critical to the process. Units also used as prefeeders for **weigh** belts and in gain-in-weight batching applications. New K2-Volumetric feeders offer same Powersphere...

...within [+ or -]1 rpm.

Colortronic line of gravimetric blenders provides continuous, high-accuracy, in-line **weigh** blending of up to eight ingredients and additives (pellets or powders). Weighblender features stable, high... feeders range from 0.00046 to 72 cu ft/hr, and distributive controls for complete **weigh** -feeding and metering systems capability.

METALFAB, INC.

Line of volumetric screw and belt feeders, batch...system on a single machine.

PACIFIC ENGINEERING SYSTEMS

Full line of gravimetric blending systems includes **Weigh** Master, which is designed to handle powders, granules and pigments, in addition to nonfree-flowing...

...throat, eliminating any chance of demixing. Features include increased computer speed and memory, factory-wired **weigh** and drive system, supported SPI standard interface, easy access for machine cleanout, one-piece loading...

...to complement a current line or will fully engineer an integrated scrap recovery system.

THAYER **SCALE** /HYER INDUSTRIES

Full line of gravimetric screw and vibratory loss-in-weight feeders, **weigh** belt feeders, belt scales, **display** and control instrumentation, and bin and hopper flow aids. Specializes in powder feeding such as...

...pigments, but also supplies a range of equipment for feeding fibers,

flakes, pellets and liquids.

Weigh feeder controller instrumentation is durable and user friendly. Installed drivers for serial interface with all...

...reliable integration of equipment.

TRIDYNE PROCESS SYSTEMS DIV. OF DBI INDUSTRIES INC.

Net-weighing or **weigh**-counting machines and systems for dry materials. Features include pre-weighing and discharging, or continuous...
...mainline and liquid additive), two-component systems (epoxies, polyurethanes), adhesives, melt-blown nonwovens, and commercial- **scale** , polymer-reactor pumps.

Line of standard gear-pump styles meets all viscous liquid metering needs...

1/6,K/12 (Item 7 from file: 148)

DIALOG(R)File 148:(c)2002 The Gale Group. All rts. reserv.

07507220 SUPPLIER NUMBER: 15717491 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Compounding, mixing, blending systems. (Manufacturing Handbook & Buyers' Guide 1994/95) (Directory)

July 15, 1994

WORD COUNT: 9081 LINE COUNT: 00757

PACIFIC ENGINEERING SYSTEMS

Gravimetric blending systems: **Weigh** Master handles powders, granules and pigments, in addition to nonfree-flowing materials such as talc, calcium carbonate and regrind. **Weigh** Master combines up to eight ingredients with accuracies on both major and minor ingredients of...

...to 75 gal.

AEC/WHITLOCK

Blending systems for free-flowing materials include volumetric, gravimetric, batch- **weigh** and loss-in-weight systems. SMA, WVB and LMA volumetric blenders continuously blend materials at...

...floor-mounted and blend two to six ingredients.

For more precise blending, WWB series batch- **weigh** blenders and WLB series weight-loss blenders have microprocessor-based controls to deliver accuracies better...Multi Flow blender, a compact hopper-mounted unit, blends three materials without separation.

Gravimetric Multi **Weigh** blender augments standard range of volumetric Multi Flow blenders. It utilizes up to eight metering...

...to company.

COLORMAX

See Louis P. Batson Inc.

CONAIR FRANKLIN THE CONAIR GROUP, INC.

Auto **Weigh** gravimetric blenders blend two to eight materials in batch sizes of 4.4, 8.8...powders and weighs minor ingredients (pellets, powders, or liquids) as they are metered into a **scale** hopper. Blending is done in either a supplied dynamic mixer or a separate ribbon or...

...larger systems deliver from 4000 to 8000 lb/hr of blended materials.

Model 1200 D **weigh** blender is used as an individual machine blender or small central blender for up to...

...to a weighing chamber. A complete batch is then discharged into a mixing chamber.

All **weigh** blenders have [+ or -]0.5% accuracy. Larger models come standard with DX electronic controls, including...between virgin and color. Large central blenders to 15,000 lb/hr.

RWIMB series ratio- **weigh** blenders feature weighed virgin and regrind

metering/conveying. When a preset weighed batch is dumped...

...RS485 serial port for communications, provides a menu-driven format.

Company's 400 series accumulative **weigh** blenders have menu-driven computer controls. Several of these units can interface with each other... mechanical mixing and potential for material segregation. Gravimetric units provide continuous, high-accuracy, in-line **weigh** blending of up to eight ingredients. Resins and additives, either pellets or powders, may be...

...K-Tron Soder line of volumetric and gravimetric feeders and controls for compounding. Patented Smart **Force Transducer weigh** modules provide **weigh** -feeder resolution of 1:1 million. Feeder controls easily interfaced with user's PLC/DCS and may be configured for continuous or batch processes.

Also a line of **weigh** belt and loss-in-weight feeders. K2-Modular feeders feature Powersphere feeder module for fast...eight materials have capacities to 20,000 lb/hr. Also line of auger, vibratory-feed, **weigh - scale** and loss-in-weight blenders, additive feeders, and proportioning loaders.

LCI CORP.

Thermoprofiler motionless mixer...

...and reduces temperature differentials downstream to less than 3.5[degrees] F.

Smartblend gravimetric, cumulative **weigh** blender for multiple ingredient blending provides blend ratios with accuracies by weight of 0.25 ...additive metering equipment includes auger feeders for pelletized color and regrind, pumps for liquid color, **weigh - scale** blenders, color loaders, material loaders, mixers for premixing color and natural material, magnet drawers, and...a demand signal, the computer runs all ingredient feeders at required rates until satisfied.

Xactabatch **weigh - scale** batch blender is for two to six ingredients. Micro-processor control, utilizing two load cells mounted on a single **weigh - scale** hopper, weighs each ingredient dispensed and deposits the total batch into a mixing chamber. Programmable...

...weighing accuracies from [+ or -]0.1% for batching blenders to [+ or -]0.5% of full- **scale** capacity for continuous loss-in-weight system. Each system can blend two to eight or...

...changeover. Microprocessor-based controls standard. Continuous loss-in-weight system available with 12-color CRT **display** .

AFCB (auger feeder cascading blender) reportedly can satisfy 99% of pellet blending requirements without an expensive **weigh** feeder. Up to four materials are proportionally fed ([+ or -]1%) into cascading section of the...

1/6,K/13 (Item 8 from file: 148)

DIALOG(R)File 148:(c)2002 The Gale Group. All rts. reserv.

06139084 SUPPLIER NUMBER: 12721075 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Plastics World auxilliary equipment mall. (buyer's guide of new auxiliary equipment introduced in the National Plastics Exposition) (Cover Story) July, 1992

WORD COUNT: 13471 LINE COUNT: 01131

... molders to dry many different resins with one dryer. Bry-Air Systems Circle 165

Remote **display**

New **display** allows remote operation of microprocessor-controlled dryers, blenders and multiple sequencing vacuum systems. Remote can...

...Systems Circle 170

Desiccant dryer

The Dri-Pak 12/24 has a microprocessor-controlled digital **display** temperature control and operates on a single blower, single desiccant-bed arrangement. Thoreson-McCosh Circle...rates to 7,000 lb/hour. They feature all digital weighing using a patented smart **force transducer** with one part in one million resolution, a five-year warranty and controls that can

...reducing additive and filler levels and improving melt homogeneity New Castle Industries Circle 211

Gravimetric **weigh** blenders

The Italycs gravimetric **weigh** blender meters up to three ingredients. Its operation can be controlled by the Italycs (Integrated... Loss-in-weight feeders

Units incorporate a feed device and hopper mounted on a platform **scale** or **weigh** cells. The controller matches the flow of material coming out of the feeder with the...

...It (the controller) responds only to forces directly on it or upon the feeder and **scale**, not to normal process vibration, plant noise, or other mechanical noise. System is able to...microprocessor control for time- or energy-programmed welding, its standard features include adjustable amplitude control, **force transducer** triggering, calibration pulse before each cycle and in-job storage. Linear encoder for distance control

1/6,K/14 (Item 9 from file: 148)

DIALOG(R) File 148:(c)2002 The Gale Group. All rts. reserv.

05160502 SUPPLIER NUMBER: 10753418 (USE FORMAT 7 OR 9 FOR FULL TEXT)

NPE '91. (1991 National Plastics Exposition and Conference)

May, 1991

WORD COUNT: 25816 LINE COUNT: 02154

... NPE '91 will be the following:

* A.L.B.A. Enterprises, Inc., Torrance, Calif., will **display** its Quick Knockout Coupler, reportedly suited to applications in which the ejector plate on the...

...circuitry, a four-post ram guidance system, and Acrotron Microprocessor Control. The company will also **display** its high speed Model 730RR peripheral banding machine and its Model 830SP-100 10-Ton...

...which are reportedly capable of testing up to 20 containers/min. The company will also **display** the Model 7385 Rotary LeakInspector, the Model DI 3015 DrumInspector, and the Model DI 6030...Booth 2427.

* Allegany Technology Inc., Cumberland, Md., will be featuring its mobile electronic pallet truck **scale**, the Palletweigher. Designed to **weigh** moving materials, the battery-powered system has a **scale** capacity of 4500 lbs, a standard fork length of 48 in., and a fork spread of 27 in. The firm will also highlight its Lift Truck **Scale**, which features a dual **scale** piece-counting option, and its Checkmate and Champion crane scales. Booth 4403.

* Alloy Technology International...

...blades. Its screw is suited to PVC, PP, LDPE, and HDPE. The firm will also **display** its Plastimac bagmaking machines. Models 402 TA, 805 SF, and 1005 SF are for producing...various sizes of chambers, fixtures, and samples. Booth 5508.

* Aristech Chemical Corp., Florence, Ky., will **display** various items from its line of Continuous Cast Acrylic Sheet products. Among the featured items...

...1996 permits multizone P.I.D. heating or heating/cooling control. The firm will also **display** its "A Series" temperature control system, which comprises individual zone controllers and power drivers contained...

...that is controlled by an inverter.

The company's IROS-SP Polymer Analyzer, also on **display**, uses infrared spectroscopy for on-line composition analysis of molten polymers. The unit employs an...

...use "quick disconnect" wiring devices for minimizing installation and maintenance time. The firm will also **display** its FITT-8000 temperature control system and its Ma Series of compact temperature controllers. Booth ...

...for SPC, SQC, production scheduling, and machine monitoring. The demonstration will include a new graphic **display** terminal that permits the communication of detailed information to each machine being monitored by the...stand-alone automatic container take-away system with its FHB 106-2 blowmolder; also on **display** will be examples of its ReCo (reclaim coextrusion) technology. Booth 6860.

* Battenfeld Gloucester Engineering Co...

...min. Booth 12009.

* Berstorff Corp., Charlotte, N.C., will show its ZE 40-A pilot **scale** twin screw extruder, which features a high torque design and easily replaceable liner-type barrels...

...overshoots and offsets between oven setpoint and sample temperature. A low compliance torque and normal **force transducer** permits steady and oscillatory measurements over a wide range of viscosity and elasticity. Booth 12633...reportedly exhibits favorable flushing characteristics, which benefit processors who frequently change materials. Brampton will also **display** its Italycs computer-controlled line management system, the Uni-Flo Tandem Air Ring, and a...

...output modules, and a hand-held terminal with a 3- x 3-in LCD graphic **display**. The firm will also exhibit its IQ Series control and networking system. Booth 3253.

* Bulk...

...accommodate a wide range of highly filled heat-sensitive engineering resins. The company will also **display** its Buss-Kneader Model PLK 70 powder coatings compounder, which incorporates a heating and cooling...

...Instruments, Inc., South Hackensack, N.J. The 3/4-in extruder is a compact, small **scale** system that reportedly can operate at high melt temperatures. It can be used for cable...modified CGB4-12 stand-up flamer to flame and pack bottles. The firm will also **display** its Microprocessor controllable Flame Management System, which uses UV sensors to detect the absence or...

...turntables, slide tables, and roll-on attachments, can also be controlled. The firm will also **display** Cassco/Tosh pad printing machines, which print at speeds of up to 2500 cycles/hr...

...options include vacuum construction, variable speed drives, and liquid spray nozzles. The firm will also **display** its PowerMix mixer, which features a variable speed dispersion blade. Booth 2425.

* Chromium Industries, Inc., Chicago, will **display** a new computer that includes a CAD system for roll engineering and a heat transfer...

...conventional and stainless steels for molds and holder block applications. In addition, the firm will **display** CPM tool steels for high

wear applications in injection molding and extrusion, and will present...

...crown, and produces tubing at the rate of 30 ft/rev. The firm will also **display** samples of its thermoplastic tubing, which it manufactures in sizes ranging from 1/4-in...

...IPS plastics materials database is available in the Plastics Selector Software Data System. Also on **display** will be the IPS parametric database in book form--the Plastics Digest--and the Adhesives...

...line of microprocessor-based temperature controls--the DSS Temperature Controller. The DSS features continuous dual **display** of process and setpoint temperatures for each zone. It provides constant surveying and recording of ...that are used to maintain the setpoint for a given run.

The firm will also **display** its new Expert Design System, a CAD/CAM software package that promises to accelerate tool...

...and an adjustable flow nozzle system. Booth 1256.

* Data Technical Research (DTR), Jacksonville, Fla., will **display** and demonstrate features of its Plastics Management System, an MRP-II, scheduling, and financial management...

...mold plateout; they are also said to be "cleaner, brighter, and stronger." Other products on **display** will be the firm's new VC (vinyl colorant) pigments, which offer high heat stability...

...motion control. It converts the signal from an LDT into a continuous six-digit position **display**, and generates eight user-programmable on/off setpoints. Booth 14419.

* Degussa Corp., Ridgefield Park, N...

...range of pad printing machinery and supplies. Booth 2417.

* Desco Equipment Corp., Eastlake, Ohio, will **display** its Model DSP-12W Container Decorating System. The system features a swing control panel and...

...curing of the containers on an adjustable mandrel. Booth 3242.

* Deublin Co., Northbrook, Ill., will **display** a full line of rotating unions and core holding products. The rotating unions are used to transmit air or hydraulic oil to clutches and brakes. Also on **display** will be large-diameter Leaf Type Shafts for cores of up to 12-in. in...for conventional lobe and gear pumps. Booth 40.

* Eastman Chemical Products Inc., Kingsport, Tenn., will **display** various commercial applications of resins. Among the exhibits will be the following Kodapak products: EBM...

...with stretch blowmolded containers; and APET polyester for thermoformed sheet applications.

The firm will also **display** Kodar PETG copolyester for injection blowmolding, film, and sheet applications; Tenite PET polyester for CPET...

...5.00 in. The gages also feature microprocessor technology and a large five-digit LCD **display**. Booth 12716.

* Products to be displayed by EM Industries, Inc., Hawthorne, N.Y., include Afflair...

...such as caps and closures, rigid bottles, and electrical/electronic components.

The company will also **display** its Compak Induction Cap Sealer, which is capable of sealing at line speeds of up...

...at Booths 7616 and 7622, 1130, 1430, and 10325.)

* Engelhard Corp., Iselin, N.J., will **display** a full range of its Harshaw color pigments line, and will feature Translink kaolin-based...

single- and three-phase SCR contactors. Several samples of systems integration will also be on **display**.

The EM-2 is a multiloop control system designed specifically for extruders; it controls parameters...against external wiring faults such as wet heaters, short circuits, and crossed zone wiring. On **display** will be the Gammaflux 11 Zone Controller. Booth 3710.

* Gateway Precision Technologies, Grandville, Mich., manufactures...

...extruders for a variety of markets, including medical grade tubing, wire, cable, and hose. On **display** will be a 1-1/4-in portable vertical extruder, a 1-in bench model...

...feed granulator, which features a Smart-1 microprocessor-controlled programmable drive. The system provides feedback **display** of drive frequency, voltage, current, and power, and offers 32 operating fault codes, which permit...

...open-press time by providing the advantages of post-molded installation. The firm will also **display** a production data slide rule for specifying screw thread insert assemblies. Booth 2209.

* The Henderson...of air in the curtain without a significant loss of velocity. The company will also **display** its nuclear and electronic ionizing air guns for neutralizing static charges on plastic surfaces. Booth...

...and is capable of data logging, SPC, and multipoint controlled volume injection.

Hettinga will also **display** various automotive parts, such as bumpers, exterior sections with molded-in film, and interior parts...

...based flame retardant additive system. Booth 1242.

* Holzma:U.S., Inc., Gastonia, N.C., will **display** the HPP 91, a heavily built panel saw that is electronically controlled. The saw features ...

...32-oz toggle model and the HGL Horizontal Glazing Line. The HPM Remanufacturing Division will **display** a remanufactured 1969 Farrel 1000-ton injection molding machine that now includes a Command 90...

...improves cavity venting and penetration in insert molding. Booth 2600.

* Hunkar Laboratories Inc., Cincinnati, will **display** its DAC-III (Data Acquisition] and Control) system, which offers closed loop process control for...

...Data Acquisition Terminal (P-DAT). Booth 3200.

* Husky Injection Molding Systems Ltd., Bolton, Ontario, will **display** its line of injection molding machines, molds, and hot runners. A 1000-ton injection molding...

...injection pressure control. Booth 2748.

* Improved Blow Molding Equipment Co., Inc., Hudson, N.H., will **display** and demonstrate its B30 Series Blowmolder ...maximizes mold life and pinch-off uniformity. Booth 958.

* Imtran Industries Inc., Rowley, Mass., will **display** their GS-200 Pad Transfer Printer, their GS-100 Table-Top Pad Transfer Printer, and...

...contamination. Among other applications, they are used as nozzle band heaters. The firm will also **display** its Air-Cooled Heater Assemblies. Booth 3310.

* Industrial Magnetics, Inc., Boyne City, Mich., will be...

...products), EPS, GPPS, and HIPS. Semifinished products made from HIPS sheet will also be on **display**. Kaofulux ABS reportedly exhibits favorable

impact strength, heat resistance, and high ...TTL 3 Slitter and Crosscutter. Booth 11613.

* Killion Extruders, Inc., Cedar Grove, N.J., will **display** its new rotary knife cutter. An optional "dead stop" feature enhances the accuracy and dependability...

...the Dual Channel recorder-monitor-controller; and the Injection CoMo logger-controller with an LED **display**. In addition, the firm will introduce and demonstrate its new Dataflow software, capable of recording ...

...will exhibit the following products: low-profile Load Stand transducers that use Picocell sensors to **weigh** vessels ranging in weight from 20,000 to 3 million lbs; noncontact level systems designed...

...5-ton chillers. Both models feature a stainless steel heat exchanger, a digital water temperature **display**, and a high pressure pump. The chillers, which are precharged with refrigerant, are available as...

...attainment of the optimum shear rate independently of the production rate. The firm will also **display** its Mixtron LCM melt pump/pelletizer system. Booth 13340.

* Koch Engineering Co., Inc., Wichita, Kan., will **display** its Koch Mixing Head for injection molding machines. The mixing head is reported to totally...

...Corp., Gloucester, Mass., will feature new hot runner systems for injection blowmolding and PVC. The **display** will include a hot runner system for one-stage injection stretch blowmolding, and the standard...

...of converting from production of widemouth containers to production of narrow-neck containers. Also on **display** will be the KB-150/3-layer coextrusion machine for recycling, ...of Holograms, Sparkle Brights, and hot stamping foils. Booth 1130.

* LaserMike Inc., Dayton, Ohio, will **display** its 183 Series Benchtop Optical Micrometers, which provide measurements ranging from simple part diameters to...

...puller for control of total yield. Booth 2453.

* M.C. Molds, Inc., Williamston, Mich., will **display** its line of extrusion blowmolds, as well as various containers produced from the molds. Booth...computes geometric measurements of radii, angles, and distances between coordinate points. The firm will also **display** its Model V350 Automated Video CMM, which includes a high resolution video system. Booth 11336...the area of custom compounding. Flame retardant TPE alloys will be among the products on **display**. Booth 2129.

* Norwood Marking Systems, Downers Grove, Ill., will **display** its Jaguar Thermal Transfer Printer. The computer-controlled system, has adjustable print parameters that allow...

...molds and parts. Booth number not available at press time.

* Novacor Chemicals, Calgary, Alberta, will **display** the following types of polymers: PS, PE (including new hexene grades), and styrene-acrylic copolymers...

...and the 1-Ear Stepless Clamp. Booth 5221.

* Ogden Manufacturing Co., Arlington Heights, Ill., will **display** its ETR 9080 microprocessor-based temperature control, which features an automatic tuning function. The 1...

...process a variety of materials, including PVC, PE, PA, and PVDF. The company will also **display** corrugated pipes for electrical insulation, drip irrigation, and road drainage. Booths 12210, 12311, and 12511...of the

pad unit are among its features. Booth 2227.

* Panametrics Inc., Waltham, Mass., will **display** its Magna-Mike Model 8000 Hall Effect Thickness Gage, which is used in measuring wall...

...5215 Ultrasonic On-line Thickness Gage. Booth 7636.

* Underwater cutter blades will be the featured **display** of Pelletizer Knives, Inc., Houston. The firm designs and manufactures blades, knife holders, and hubs...

...of their traditional products, such as Colormatch Dispersions and Plastigel Polyester Thickeners, the company will **display** its Plastiperse PS-02052 Black colorant for bulk molding compounds. Booth 2133.

* Plastics Engineering CoN.J., will **display** its PASS computer software package for extruder and die design. PPI will also announce its...

...g. Applications include product testing, trim winding, and other noncontinuous processes. The company will also **display** a guiding system for low tension winding; an Alternating Dual Spindle Take-Up; a Telesensor ...eliminate surface defects that can be caused by puller drive trains. The company will also **display** a range of machinery representative of its line of post extrusion machinery and tooling. Booth...

...3308.

* Regloplas, Switzerland: See Marvel Equipment Corp. Booth 9022.

* Reinfenhauser Film Systems, Peabody, Mass., will **display**, as part of a new generation HDPE blown film extrusion line, control cabinets for blown...

...has a UL listing of V-2 at 0.030-in. The firm will also **display** its RX2-202 flame retardant HIPS, reported to be a suitable replacement for flame retardant...

...control functions of standard spool and poppet-type directional control valves. The firm will also **display** its Model 4WRD Proportional Directional Valve and its Model DBE/DBETR Proportional Pressure Relief Valves...

...produced with an integrated UV-resistant barrier. New and expanded applications will also be on **display** for the company's Kamax high heat acrylic-imide copolymers and Plexiglas acrylic resins. Booth...

...use long glass fiber, carbon fiber, and stainless steel fiber compounds. The company will also **display** applications of its Conductive Product Group and its Color Product Group. Booth 3207.

* Safeline Inc...adjustments. It also features preheat ovens that are fully retractable and independently controlled. Also on **display** will be a [CO.sub.2] metering system and several laboratory heat sealers. Booth 6965 ...

...services in the area of silk screened heat transfers for product identification. The firm will **display** decals that can be applied to a variety of surfaces, such as polyethylene foam neck...

...Technology. It provides defect classification and SPC interface. Booth 13540.

* Solomat Instrumentation, Stamford, Conn., will **display** its Integrated Sensor Instrumentation and Software (ISIS). The system consists of add-on electronic boards...

...as ten rectangular zones of various sizes. Booth 3742.

* Standard Insert Co., Horsham, Pa., will **display** its line of brass, stainless steel, and aluminum threaded inserts for ultrasonic insertion, molding, and...

...resins such as PC, ABS, and PS. Booth 6028.

* Sumitomo Machinery Corp. of America will **display** its Paramax 7 Series parallel shaft speed reducers. The series features standardized gear sets, which...Flow Indexer, and Daventest's HDT Tester. Booth 4309.

* Thermal Care/Mayer, Niles, Ill., will **display** equipment such as water treatment products and temperature controllers for water and oil. The company...

...PE), the top heater unit can remain in place during the forming cycle. Also on **display** will be a computerized heat control system and a duplex chain rail that features a...

...break; it also features low curl distortion, low processing distortion, and uniform shrinkage. Also on **display** will be the firm's StereoLithography Apparatus (SLA) products. Booth 5409.

* Tinius Olsen Testing Machine...measuring station or as a robot controlled on-line sampling system. The company will also **display** its Topwave Layergauge for measuring layer thicknesses in multilayer plastic films and coatings, and its...

...reduction equipment are among their other applications. Booth 6549.

* Uniplast International, Inc., Meadville, Pa., will **display** its CAL VAK Calibration Table and its CAT PUL 2D Haul-Off. The calibration table...

...in place while a diamond-grit router bit cuts through the composite material. Also on **display** will be the company's RAM equipment, a low flow, single component system designed for...Tec Inc., which offers Physiosorption (electromagnetic adsorption) technology for removing and preventing the formation of **scale** in molds, molding machines, and heat exchangers; and Sparkle Trading Co., Ltd., which specializes in...

...or continuous cycling. The firm will also exhibit its Model WSD desiccant dryers, Three-Compartment **Weigh** Blender, and ESM Control Panel. Booth 3345.

* Waters/Division of Millipore, Milford, Mass., will present...

...panel operator interface and integrated control equipment within the machine frame. Its features include graphic **display** software, auto tuning temperature control, SPC, and product recipe storage. Among the other equipment to...reportedly available on up to eight loops. Booth 7533.

* Wilmington Machinery, Greensboro, N.C., will **display** two new blowmolders. A 60 ton version, with 12 lb shot capacity, of an industrial ...

...will be a shuttle blowmolder for packaging and other small part applications--the model on **display** will be a 5 ton, dual calibrated parison machine molding a 12-oz personal care...

...features an all-pneumatic drive and minicontrol. Booth 8443.

* X-Rite, Inc., Grandville, Mich., will **display** its 948 SpectroColorimeter and its 968 SpectroPhotometer. The 948 is a hand-held unit that...

...SPC monitoring and printout, automatic die height, and full linear control. The company will also **display** a 25 ton Pro Series 3000 control. Booth 8927.

* Zarad Technology, Inc., Cary, Ill., will **display** its MicroMoisture solid state instrument for analyzing moisture. The instrument features microwave components and reportedly...

...conventional extruders and other screw-type pumps. Booth 2535.

* Zygo Mould, Ltd., Etobicoke, Ontario, will **display** 32-cavity, hot runner injection molds for PET preforms, 1-liter basecups, and a 100mm...

L Number	Hits	Search Text	DB	Time stamp
-	24	("3692988" "4377214" "4495581" "4597457" "4638439" "4787046" "4814995" "5069299" "5538234" "5606507" "5615120" "5724245").pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/29 08:42
-	99	("6194671" "6249778" "6376783" "4868757" "4376981" "4462473" "4569022" "4574352" "4605080" "6098057" "4377214" "5615120" "5648916" "5675493" "4481587" "5427025" "5307281" "5257196" "5717596" "5550328" "4864521" "5521334" "5780778" "5841076" "5905232" "6013878" "6153835" "4809186" "5586037" "4395756" "4787048" "4872521" "4365293" "4814995" "4956782" "4495581" "5983209" "4628457" "4308579" "6050486" "6058190" "4410962" "4556944" "4787046" "5914464" "5065000" "5452654" "5724245" "4420819" "4907162").pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 13:45

-	98	("6076081" "4516209" "5729459" "5362928" "4325440" "4852786" "4865139" "4886132" "4923023" "4957179" "5009137" "5014797" "5190115" "5270938" "5475603" "5943432" "6006210" "6353192" "4506330" "4347506" "4796193" "5191533" "5375172" "4900905" "6125357" "5794222" "6010156" "4812994" "4611677" "4949381" "5712787" "6101487" "6026385" "5602742" "4535419" "5960418" "4271470" "6154734" "6282590" "4286325" "4390952" "4980542" "6157919" "4901241" "5178228" "5226496" "5612889" "5731980" "5812536" "5936865").pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 16:37
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-	11056	(((705/407) or (177/25.15) or (705/410) or (705/402) or (705/406) or (705/408) or (177/25.13) or (177/4) or (705/401) or (380/51) or (177/145) or (235/381) or (705/403) or (705/404) or (177/25.15) or (705/407) or (705/410) or (705/408) or (705/401) or (702/173) or (177/4) or (235/375) or (705/409) or (101/91) or (177/238) or (177/25.13) or (705/62) or (177/145) or (177/170) or (380/51) or (705/30) or (705/411) or (101/71) or (177/168) or (177/185) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (209/584) or (209/900) or (235/380) or (283/71) or (700/227) or (705/403) or (705/404) or (705/407) or (177/25.15) or (705/410) or (705/408) or (705/401) or (177/4) or (177/25.13) or (702/173) or (705/402) or (235/375) or (380/51) or (705/406) or (101/91) or (177/145) or (705/409) or (177/238) or (705/403) or (705/404) or (705/62) or (177/170) or (177/185) or (705/30) or (705/411) or (101/71) or (177/168) or (177/187) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (177/50) or (209/584) or (209/900) or (235/380) or (235/381) or (283/71) or (700/213) or (700/227) or (705/405)).CCLS.) not @PY>1998	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 13:56
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-	73	("6194671" "6249778" "6376783" "4868757" "4376981" "4462473" "4569022" "4574352" "4605080" "6098057" "4377214" "5615120" "5648916" "5675493" "4481587" "5427025" "5307281" "5257196" "5717596" "5550328" "4864521" "5521334" "5780778" "5841076" "5905232" "6013878" "6153835" "4809186" "5586037" "4395756" "4787048" "4872521" "4365293" "4814995" "4956782" "4495581" "5983209" "4628457" "4308579" "6050486" "6058190" "4410962" "4556944" "4787046" "5914464" "5065000" "5452654" "5724245" "4420819" "4907162").pn.) not @PY>1998	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 13:57
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-	24	("6194671" "6249778" "6376783" "4868757" "4376981" "4462473" "4569022" "4574352" "4605080" "6098057" "4377214" "5615120" "5648916" "5675493" "4481587" "5427025" "5307281" "5257196" "5717596" "5550328" "4864521" "5521334" "5780778" "5841076" "5905232" "6013878" "6153835" "4809186" "5586037" "4395756" "4787048" "4872521" "4365293" "4814995" "4956782" "4495581" "5983209" "4628457" "4308579" "6050486" "6058190" "4410962" "4556944" "4787046" "5914464" "5065000" "5452654" "5724245" "4420819" "4907162").pn.) not @PY<1998 4377214.pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 13:57
-	2		USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 16:37

-	12857	((705/407) or (177/25.15) or (705/410) or (705/402) or (705/406) or (705/408) or (177/25.13) or (177/4) or (705/401) or (380/51) or (177/145) or (235/381) or (705/403) or (705/404) or (177/25.15) or (705/407) or (705/410) or (705/408) or (705/401) or (702/173) or (177/4) or (235/375) or (705/409) or (101/91) or (177/238) or (177/25.13) or (705/62) or (177/145) or (177/170) or (380/51) or (705/30) or (705/411) or (101/71) or (177/168) or (177/185) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (209/584) or (209/900) or (235/380) or (283/71) or (700/227) or (705/403) or (705/404) or (705/407) or (177/25.15) or (705/410) or (705/408) or (705/401) or (177/4) or (177/25.13) or (702/173) or (705/402) or (235/375) or (380/51) or (705/406) or (101/91) or (177/145) or (705/409) or (177/238) or (705/403) or (705/404) or (705/62) or (177/170) or (177/185) or (705/30) or (705/411) or (101/71) or (177/168) or (177/187) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (177/50) or (209/584) or (209/900) or (235/380) or (235/381) or (283/71) or (700/213) or (700/227) or (705/405)).CCLS.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 17:45
-	37	((705/407) or (177/25.15) or (705/410) or (705/402) or (705/406) or (705/408) or (177/25.13) or (177/4) or (705/401) or (380/51) or (177/145) or (235/381) or (705/403) or (705/404) or (177/25.15) or (705/407) or (705/410) or (705/408) or (705/401) or (702/173) or (177/4) or (235/375) or (705/409) or (101/91) or (177/238) or (177/25.13) or (705/62) or (177/145) or (177/170) or (380/51) or (705/30) or (705/411) or (101/71) or (177/168) or (177/185) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (209/584) or (209/900) or (235/380) or (283/71) or (700/227) or (705/403) or (705/404) or (705/407) or (177/25.15) or (705/410) or (705/408) or (705/401) or (177/4) or (177/25.13) or (702/173) or (705/402) or (235/375) or (380/51) or (705/406) or (101/91) or (177/145) or (705/409) or (177/238) or (705/403) or (705/404) or (705/62) or (177/170) or (177/185) or (705/30) or (705/411) or (101/71) or (177/168) or (177/187) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (177/50) or (209/584) or (209/900) or (235/380) or (235/381) or (283/71) or (700/213) or (700/227) or (705/405)).CCLS.) and display and (force adj transducer)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 18:03
-	3	((705/407) or (177/25.15) or (705/410) or (705/402) or (705/406) or (705/408) or (177/25.13) or (177/4) or (705/401) or (380/51) or (177/145) or (235/381) or (705/403) or (705/404) or (177/25.15) or (705/407) or (705/410) or (705/408) or (705/401) or (702/173) or (177/4) or (235/375) or (705/409) or (101/91) or (177/238) or (177/25.13) or (705/62) or (177/145) or (177/170) or (380/51) or (705/30) or (705/411) or (101/71) or (177/168) or (177/185) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (209/584) or (209/900) or (235/380) or (283/71) or (700/227) or (705/403) or (705/404) or (705/407) or (177/25.15) or (705/410) or (705/408) or (705/401) or (177/4) or (177/25.13) or (702/173) or (705/402) or (235/375) or (380/51) or (705/406) or (101/91) or (177/145) or (705/409) or (177/238) or (705/403) or (705/404) or (705/62) or (177/170) or (177/185) or (705/30) or (705/411) or (101/71) or (177/168) or (177/187) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (177/50) or (209/584) or (209/900) or (235/380) or (235/381) or (283/71) or (700/213) or (700/227) or (705/405)).CCLS.) and (CRT adj monitor) and (force adj transducer)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 18:04

-	26	((705/407) or (177/25.15) or (705/410) or (705/402) or (705/406) or (705/408) or (177/25.13) or (177/4) or (705/401) or (380/51) or (177/145) or (235/381) or (705/403) or (705/404) or (177/25.15) or (705/407) or (705/410) or (705/408) or (705/401) or (702/173) or (177/4) or (235/375) or (705/409) or (101/91) or (177/238) or (177/25.13) or (705/62) or (177/145) or (177/170) or (380/51) or (705/30) or (705/411) or (101/71) or (177/168) or (177/185) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (209/584) or (209/900) or (235/380) or (283/71) or (700/227) or (705/403) or (705/404) or (705/407) or (177/25.15) or (705/410) or (705/408) or (705/401) or (177/4) or (177/25.13) or (702/173) or (705/402) or (235/375) or (380/51) or (705/406) or (101/91) or (177/145) or (705/409) or (177/238) or (705/403) or (705/404) or (705/62) or (177/170) or (177/185) or (705/30) or (705/411) or (101/71) or (177/168) or (177/187) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (177/50) or (209/584) or (209/900) or (235/380) or (235/381) or (283/71) or (700/213) or (700/227) or (705/405)).CCLS.) and (CRT adj monitor)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 18:06
-	2	((705/407) or (177/25.15) or (705/410) or (705/402) or (705/406) or (705/408) or (177/25.13) or (177/4) or (705/401) or (380/51) or (177/145) or (235/381) or (705/403) or (705/404) or (177/25.15) or (705/407) or (705/410) or (705/408) or (705/401) or (702/173) or (177/4) or (235/375) or (705/409) or (101/91) or (177/238) or (177/25.13) or (705/62) or (177/145) or (177/170) or (380/51) or (705/30) or (705/411) or (101/71) or (177/168) or (177/185) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (209/584) or (209/900) or (235/380) or (283/71) or (700/227) or (705/403) or (705/404) or (705/407) or (177/25.15) or (705/410) or (705/408) or (705/401) or (177/4) or (177/25.13) or (702/173) or (705/402) or (235/375) or (380/51) or (705/406) or (101/91) or (177/145) or (705/409) or (177/238) or (705/403) or (705/404) or (705/62) or (177/170) or (177/185) or (705/30) or (705/411) or (101/71) or (177/168) or (177/187) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (177/50) or (209/584) or (209/900) or (235/380) or (235/381) or (283/71) or (700/213) or (700/227) or (705/405)).CCLS.) and (CRT adj monitor) and weigh	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 18:07
-	209	((705/407) or (177/25.15) or (705/410) or (705/402) or (705/406) or (705/408) or (177/25.13) or (177/4) or (705/401) or (380/51) or (177/145) or (235/381) or (705/403) or (705/404) or (177/25.15) or (705/407) or (705/410) or (705/408) or (705/401) or (702/173) or (177/4) or (235/375) or (705/409) or (101/91) or (177/238) or (177/25.13) or (705/62) or (177/145) or (177/170) or (380/51) or (705/30) or (705/411) or (101/71) or (177/168) or (177/185) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (209/584) or (209/900) or (235/380) or (283/71) or (700/227) or (705/403) or (705/404) or (705/407) or (177/25.15) or (705/410) or (705/408) or (705/401) or (177/4) or (177/25.13) or (702/173) or (705/402) or (235/375) or (380/51) or (705/406) or (101/91) or (177/145) or (705/409) or (177/238) or (705/403) or (705/404) or (705/62) or (177/170) or (177/185) or (705/30) or (705/411) or (101/71) or (177/168) or (177/187) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (177/50) or (209/584) or (209/900) or (235/380) or (235/381) or (283/71) or (700/213) or (700/227) or (705/405)).CCLS.) and (monitor) and weigh	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 18:08

-	163	((705/407) or (177/25.15) or (705/410) or (705/402) or (705/406) or (705/408) or (177/25.13) or (177/4) or (705/401) or (380/51) or (177/145) or (235/381) or (705/403) or (705/404) or (177/25.15) or (705/407) or (705/410) or (705/408) or (705/401) or (702/173) or (177/4) or (235/375) or (705/409) or (101/91) or (177/238) or (177/25.13) or (705/62) or (177/145) or (177/170) or (380/51) or (705/30) or (705/411) or (101/71) or (177/168) or (177/185) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (209/584) or (209/900) or (235/380) or (283/71) or (700/227) or (705/403) or (705/404) or (705/407) or (177/25.15) or (705/410) or (705/408) or (705/401) or (177/4) or (177/25.13) or (702/173) or (705/402) or (235/375) or (380/51) or (705/406) or (101/91) or (177/145) or (705/409) or (177/238) or (705/403) or (705/404) or (705/62) or (177/170) or (177/185) or (705/30) or (705/411) or (101/71) or (177/168) or (177/187) or (177/210FP) or (177/245) or (177/253) or (177/255) or (177/262) or (177/50) or (209/584) or (209/900) or (235/380) or (235/381) or (283/71) or (700/213) or (700/227) or (705/405)).CCLS.) and (monitor) and weigh and scale	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 18:42
-	2	5586037.pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/28 18:43
-	2	5586037.pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/29 08:57
-	2	4526247.pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/29 08:58
-	2	4377214.pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/08/29 08:59